

Semi-Annual 2005 Groundwater Monitoring Report

**Arcata Redwood Company (Former)
Smith River Sawmill
Smith River, California
Case No. 1TDN007**

Prepared for:

Arcata Redwood Company, LLC



Consulting Engineers & Geologists, Inc.

812 W. Wabash Avenue
Eureka, CA 95501-2138
707/441-8855

July 2005
093047



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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Reference: 093047

July 29, 2005

Mr. Cody Walker
California Regional Water Quality
Control Board, North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, CA 95403

Subject: Semi-Annual 2005 Groundwater Monitoring Report, Arcata Redwood Company (Former) Smith River Sawmill, Smith River, California; Case No. 1TDN007

Dear Mr. Walker:

This semi-annual 2005 groundwater monitoring report is being submitted by SHN Consulting Engineers & Geologists, Inc., on behalf and with the approval of, Arcata Redwood Company, LLC, in accordance with the California Regional Water Quality Control Board, North Coast Region's reporting requirements.

If you have questions or comments, please call me at 707/441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Frans B. Lowman, R.G.
Senior Groundwater Hydrologist

FBL/SLD:med

Attachment: Report

copy w/attach: Jeff Lane, Arcata Redwood Company, LLC
Galen Schuler, Esq., Representative for Arcata Redwood Company, LLC

Reference: 093047

Semi-Annual 2005 Groundwater Monitoring Report

**Arcata Redwood Company (Former)
Smith River Sawmill
Smith River, California
Case No. 1TDN007**

Prepared for:

Arcata Redwood Company, LLC

Prepared by:



Consulting Engineers & Geologists, Inc.
812 W. Wabash Avenue
Eureka, CA 95501-2138
707-441-8855

July 2005

QA/QC: JJA____

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Abbreviations and Acronyms

<	Denotes a value that is "less than" the method detection limit.
mV	millivolts
ppm	parts per million
ug/L	micrograms per Liter
AVOC	Aromatic Volatile Organic Compound
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
DCO ₂	Dissolved Carbon Dioxide
DO	Dissolved Oxygen
EC	Electrical Conductivity
EPA	U.S. Environmental Protection Agency
HVOC	Halogenated Volatile Organic Compound
MSL	Mean Sea Level
MTBE	Methyl Tertiary-Butyl Ether
MW	Monitoring Well
NA	Not Analyzed
ND	Not Detected
ORP	Oxidation-Reduction Potential
RWQCB	California Regional Water Quality Control Board, North Coast Region
SHN	SHN Consulting Engineers & Geologists, Inc.
TPHD	Total Petroleum Hydrocarbons as Diesel
TPHG	Total Petroleum Hydrocarbons as Gasoline
TPHMO	Total Petroleum Hydrocarbons as Motor Oil
vs.	versus
WP	Well Point

1.0 Introduction

This report presents the results of semi-annual groundwater monitoring activities for the first half of 2005, conducted at the former Arcata Redwood Company, Smith River Sawmill (Case No. 1TDN007). This report was submitted by SHN Consulting Engineers & Geologists, Inc. (SHN), on behalf and with the approval of Arcata Redwood Company, LLC, in accordance with the California Regional Water Quality Control Board, North Coast Region's (RWQCB) reporting requirements. SHN completed groundwater monitoring on June 6, 2005. A site location map is presented as Figure 1.

This report is presented in five sections. This section introduces the reader to the site. Section 2.0 discusses the scope of work completed at the site during the semi-annual groundwater-monitoring event of 2005. Section 3.0 presents the results of the groundwater-monitoring program. Section 4.0 presents conclusions for the site, as well as recommendations for future activities. Section 5.0 presents references cited.

2.0 Field Activities

2.1 Monitoring Well Sampling

SHN conducted groundwater monitoring on June 6, 2005. As part of the monitoring program, all but one of the 26 existing groundwater-monitoring wells were measured for depth to water. Well MW-6 has been damaged and could not be measured. Monitoring wells MW-19, MW-21, and MW-22, and well points WP-1 through WP-3, were sampled during this monitoring event. The remaining groundwater monitoring wells were not sampled. Figure 2 shows monitoring well locations.

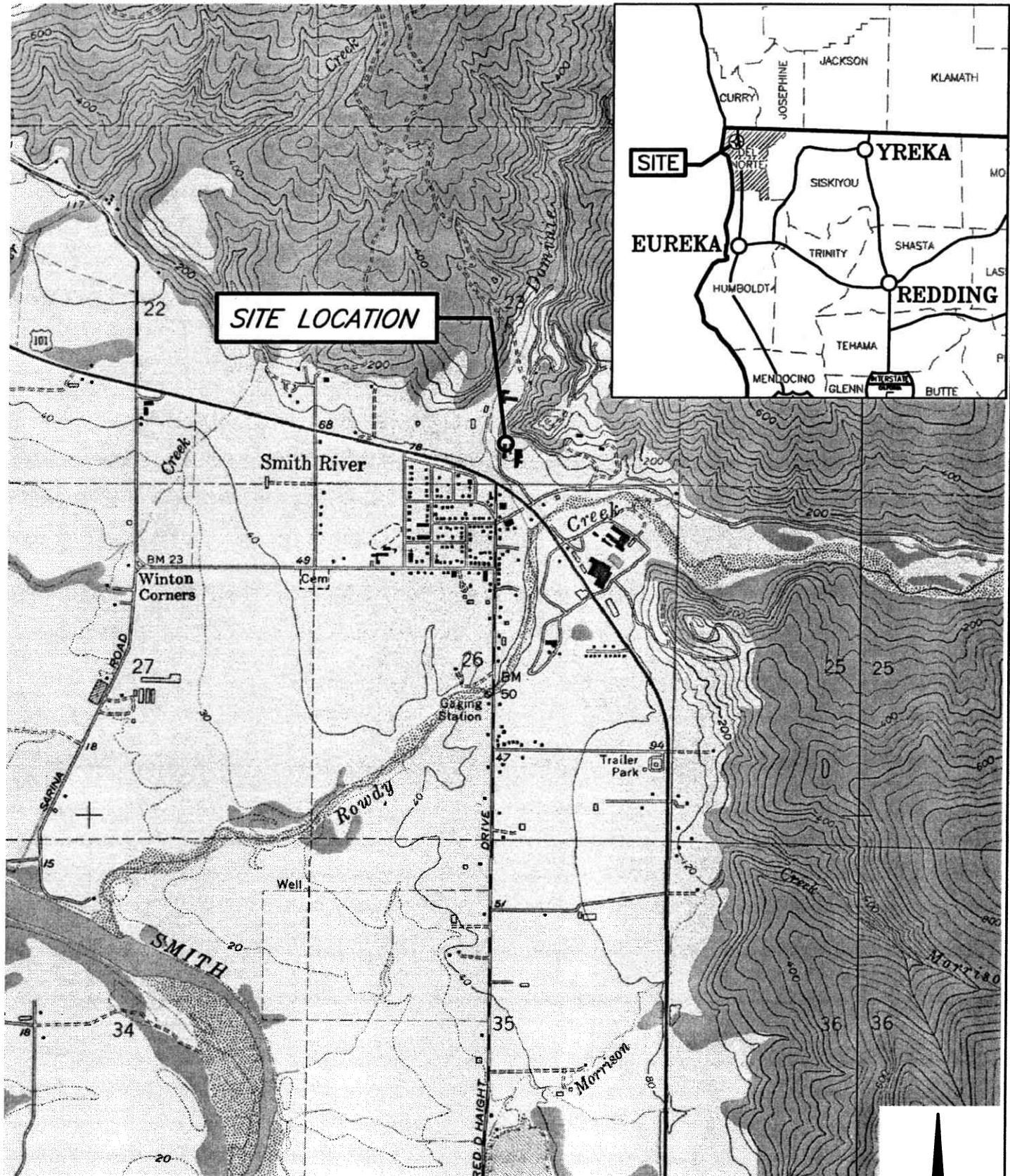
Prior to purging, monitoring wells MW-19, MW-21, and MW-22 were measured for depth to water, and checked for the presence of free product (none was observed). Electrical Conductivity (EC), pH, and temperature were monitored periodically during purging activities using portable instrumentation. Monitoring wells MW-7 and MW-19, and the three well points were measured for Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), and Dissolved Carbon Dioxide (DCO₂).

A groundwater sample was then collected from monitoring wells MW-19, MW-21, and MW-22, and well points WP-1, WP-2, and WP-3, directly from the peristaltic pump dedicated discharge tubing. The water samples were immediately placed in an ice-filled cooler, and submitted to the laboratory for analyses under appropriate chain-of-custody. Field notes and water sampling data sheets from the June 6, 2005, monitoring event are included in Appendix A.

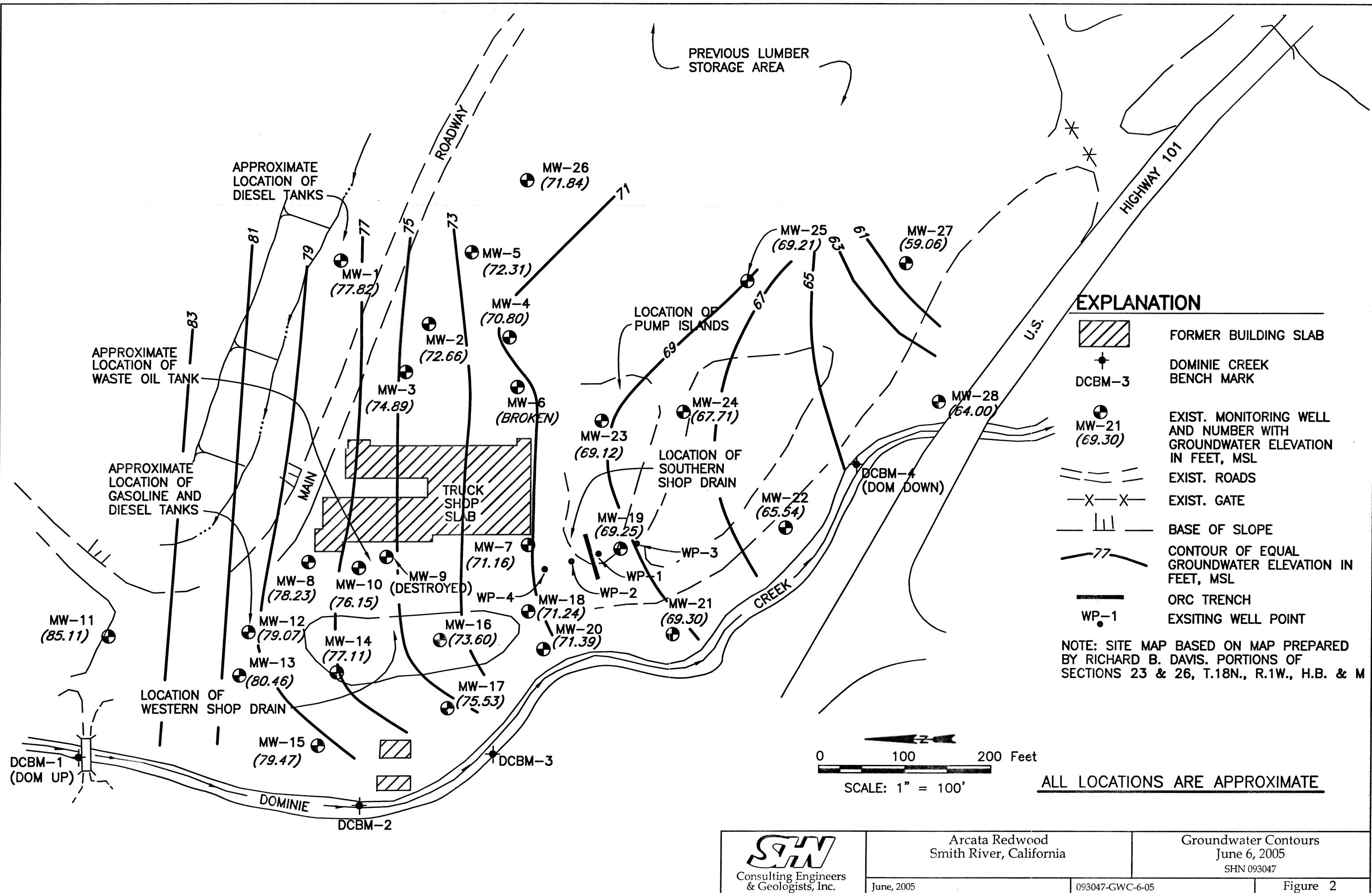
2.2 Laboratory Analysis

Each groundwater sample was analyzed for one or more of the following constituents:

- Total Petroleum Hydrocarbons as Diesel and Motor Oil (TPHD/TPHMO), in general accordance with U.S. Environmental Protection Agency (EPA) Method Nos. 3510/GCFID/8015B
- Total Petroleum Hydrocarbons as Gasoline (TPHG), in general accordance with EPA Method Nos. 5030/GCFID/8015B



**SOURCE: SMITH RIVER
USGS 7.5 MINUTE
QUADRANGLE**



- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and Methyl Tertiary-Butyl Ether (MTBE), in general accordance with EPA Method Nos. 5030/8021B

The groundwater sample from monitoring well MW-19 was also analyzed for Halogenated Volatile Organic Compounds (HVOCs), and Aromatic Volatile Organic Compounds (AVOCs), in general accordance with EPA Method No. 8021B

North Coast Laboratories, Ltd., a California State-certified analytical laboratory located in Arcata, California, performed all analyses.

2.3 Equipment Decontamination Procedures

All well purging and sampling equipment was cleaned prior to being transported to the site. All smaller equipment was initially washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a second distilled water rinse.

2.4 Investigation-Derived Waste Management

All rinse water utilized for decontaminating field-sampling equipment, and the well purge water, was temporarily stored on site in 5-gallon plastic buckets and 50-gallon plastic drums. The water was then transported to SHN's 1,000-gallon purge water storage tank located at 812 West Wabash Avenue in Eureka, California. Approximately 66 gallons of decontamination and purge water from the June 6, 2005, monitoring event are being stored at SHN, and will be discharged, under permit, to the City of Eureka municipal sewer system. A discharge receipt will be included in the next groundwater monitoring report. Appendix A in this report contains the discharge receipt for the 77 gallons of water that were generated from the January 2005 monitoring event.

3.0 Groundwater Monitoring Results

3.1 Hydrogeology

SHN measured depth-to-groundwater in all accessible monitoring wells during the 2005, semi-annual monitoring event (Table 1). On June 6, 2005, the groundwater flow beneath the site was to the south/southeast, with an approximate gradient of 0.022. The groundwater flow configuration for the site has historically been consistent.

Table 1
Groundwater Elevations, June 6, 2005
Arcata Redwood Company, Smith River, California

Sample Location	Top of Casing Elevation (feet MSL) ¹	Depth to Groundwater (feet) ²	Groundwater Elevation (feet MSL)
MW-1	90.00	12.18	77.82
MW-2	89.44	16.78	72.66
MW-3	88.59	13.70	74.89
MW-4	87.13	16.33	70.80
MW-5	87.13	14.82	72.31
MW-7	85.35	14.19	71.16
MW-8	91.34	13.11	78.23
MW-10	89.73	13.58	76.15
MW-11	90.62	5.51	85.11
MW-12	90.59	11.52	79.07
MW-13	88.92	8.46	80.46
MW-14	86.61	9.50	77.11
MW-15	86.69	7.22	79.47
MW-16	85.58	11.98	73.60
MW-17	85.04	9.51	75.53
MW-18	82.63	11.39	71.24
MW-19	80.08	10.83	69.25
MW-20	82.74	11.35	71.39
MW-21	79.69	10.39	69.30
MW-22	79.40	13.86	65.54
MW-23	84.18	15.06	69.12
MW-24	82.03	14.32	67.71
MW-25	79.56	10.35	69.21
MW-26	83.92	12.08	71.84
MW-27	76.40	17.34	59.06
MW-28	82.61	18.61	64.00

1. MSL: Mean Sea Level

2. Below top of casing

3.2 Groundwater Analytical Results

The laboratory analytical results from the June 6, 2005, groundwater-monitoring event are summarized in Table 2. TPHG was detected in the groundwater samples collected from well points WP-1, WP-2, and WP-3, and monitoring well MW-19, at concentrations of 18,000, 42,000, 1,700, and 4,100 micrograms per Liter (ug/L), respectively. TPHD was present in the groundwater samples from all three well points, and monitoring well MW-19, at concentrations ranging from 130 ug/L in well point WP-3, to 630 ug/L in well point WP-2. Detectable concentrations of toluene, ethylbenzene, and total xylenes were present in the groundwater samples collected from well points WP-1 and WP-2. Detectable concentrations of total xylenes were identified in the groundwater samples from well point WP-3 and monitoring well MW-19. MTBE and TPHMO were not detected in any of the groundwater

samples that were collected during this monitoring event. Historically, TPHMO has only been detected in the well points on an occasional basis. HVOCS and AVOCs (with the exception of xylenes) were not present above the laboratory method detection limits in the water sample collected from well MW-19.

The complete laboratory analytical report and corresponding chain-of-custody documentation from the June 6, 2005, groundwater-monitoring event are included in Appendix C. Historic groundwater analytical data are presented in Appendix B, Tables B-1 and B-2.

Table 2
Groundwater Analytical Results, June 6, 2005
Arcata Redwood Company, Smith River, California
(in ug/L)¹

Sample Location	TPHG ²	TPHD ³	TPHMO ⁴	B ⁵	T ⁵	E ⁵	X ⁵	MTBE ⁶	VOCs ⁷
WP-1	18,000 ⁸	440 ⁹	<170 ¹⁰	<0.50	0.60	0.84	306	<3.0	NA ¹¹
WP-2	42,000 ⁸	630 ⁹	<170	<0.50	0.72	2.3	777	<3.0	NA
WP-3	1,700 ⁸	130 ⁹	<170	<0.50	<0.50	<0.50	31.55	<3.0	NA
MW-19	4,100 ⁸	210 ⁹	NA	<0.50	<0.50	<0.50	77.2	<3.0	ND ¹²
MW-21	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<3.0	NA
MW-22	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<3.0	NA

1. ug/L: micrograms per Liter
2. TPHG: Total Petroleum Hydrocarbons as Gasoline, analyzed in general accordance with U.S. Environmental Protection Agency (EPA) Method Nos. 5030/GCFID/8015B
3. TPHD: Total Petroleum Hydrocarbons as Diesel, analyzed in general accordance with EPA Method Nos. 3510/GCFID/8015B
4. TPHMO: Total Petroleum Hydrocarbons as Motor Oil, analyzed in general accordance with EPA Method Nos. 3510/GCFID/8015B
5. BTEX: Benzene, Toluene, Ethylbenzene, and total Xylenes, analyzed in general accordance with EPA Method Nos. 5030/8021B
6. MTBE: Methyl Tertiary-Butyl Ether, analyzed in general accordance with EPA Method Nos. 5030/ 8021B
7. VOCs: Volatile Organic Compounds, analyzed in general accordance with EPA Method No. 8021B. See laboratory analytical report for constituent list and method detection limits.
8. The gasoline value includes the reported gasoline components, in addition to other peaks in the gasoline range.
9. Sample contains some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. Sample also contains material similar to degraded or weathered diesel oil.
10. <: Denotes a value that is "less than" the laboratory method detection limit.
11. NA: Not Analyzed
12. ND: Not Detected

As shown in Figures 3 and 4, the TPHG concentrations continue to decrease over time in monitoring wells MW-19 and MW-22, and in well points WP-1 through WP-3, respectively. The TPHG concentrations in well MW-19 and well point WP-1, however, increased slightly during this monitoring period, when compared to those reported during the January 2005, monitoring event. These minor increases may be related to seasonal groundwater elevation fluctuations.

Figure 3
TPHG Concentrations vs Time, Wells MW-19 and MW-22,
Arcata Redwood Company, Smith River, California

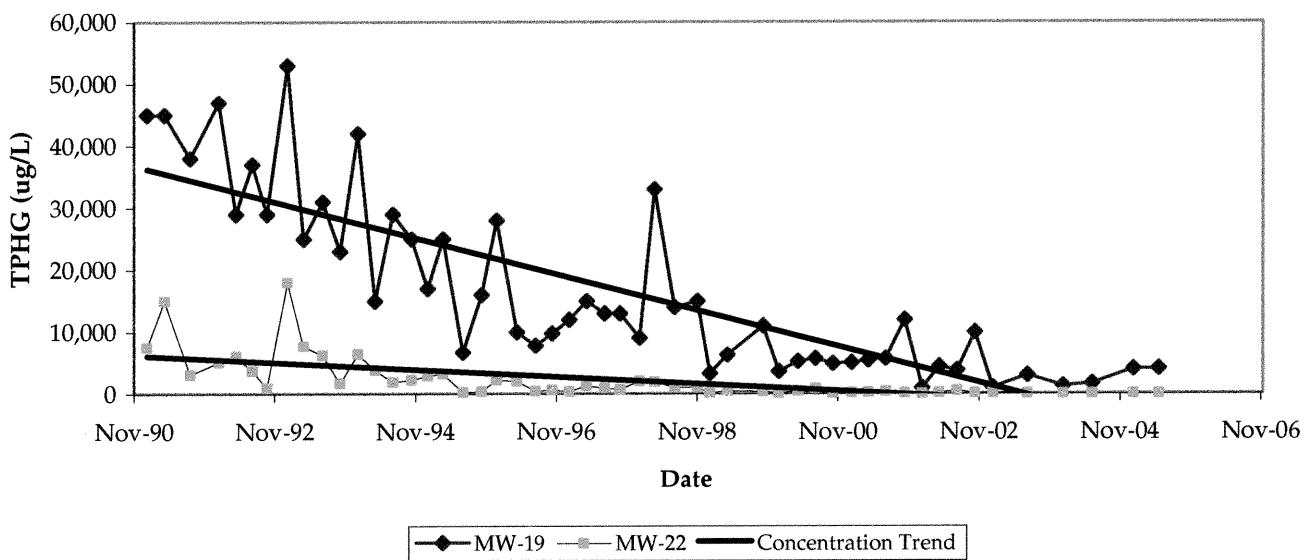


Figure 4
TPHG Concentrations vs Time, Well Points WP-1 Through WP-3
Arcata Redwood Company, Smith River, California

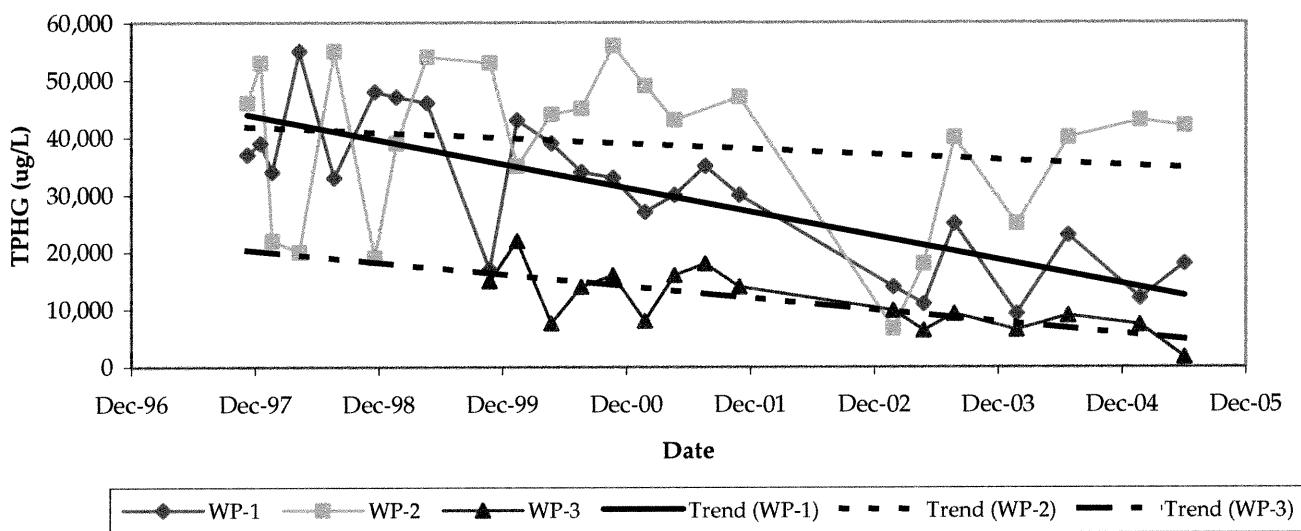
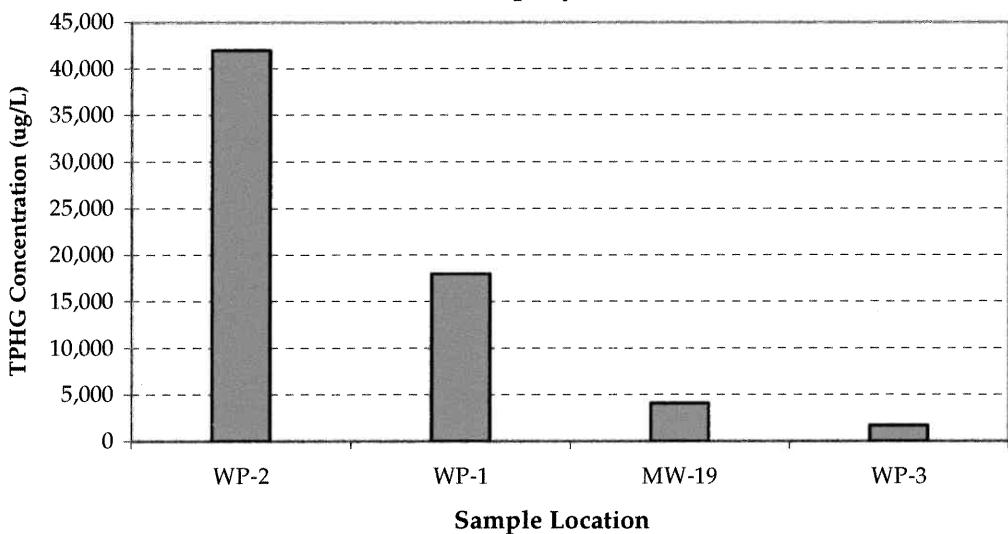


Figure 5 presents the TPHG concentration trend through the contaminated plume, from the plume midpoint (well point WP-1) to the downgradient portion (well point WP-3). There is a significant decrease in TPHG concentrations when comparing the downgradient concentrations to midpoint concentrations.

Figure 5
TPHG Concentration Cross-Section, Area III
Arcata Redwood Company, Smith River, California



3.3 Natural Attenuation Parameters

DO, DCO₂, and ORP were measured in well points WP-1 through WP-3, and monitoring wells MW-7 and MW-19, prior to sampling, and are summarized in Table 3.

Table 3
Natural Attenuation Parameters, June 6, 2005
Arcata Redwood Company (Former), Smith River, California

Sample Location	DO ¹ (ppm) ²	DCO ₂ ³ (ppm)	ORP ⁴ (mV) ⁵
WP-1	1.86	90	30
WP-2	2.96	80	33
WP-3	4.77	40	140
MW-7	2.13	80	85
MW-19	0.80	80	15

1. DO: Dissolved Oxygen, field measured using portable instrumentation.
2. ppm: Measurement concentration, in parts per million.
3. DCO₂: Dissolved Carbon Dioxide, field measured using a field test kit.
4. ORP: Oxidation-Reduction Potential, field measured using portable instrumentation.
5. mV: millivolts

During the June 6, 2005, monitoring event, DO concentrations ranged from 0.80 parts per million (ppm) in well MW-19, to 4.77 ppm in well point WP-3. DCO₂ concentrations ranged from 40 ppm in well point WP-3, to 90 ppm in well point WP-1. ORP measurements ranged from 15

millivolts (mV) in monitoring well MW-19, to 140 mV in well point WP-3. The natural attenuation measurements collected during this monitoring event indicate that mildly aerobic conditions exist beneath the site, and that biodegradation is occurring.

4.0 Discussion and Recommendations

TPHG is present in the area of well points WP-1, WP-2, and WP-3, and monitoring well MW-19 (Area 3). During this monitoring event, the TPHG concentrations in well point WP-1 and monitoring well MW-19 were slightly higher, relative to those reported during the January 2005, groundwater monitoring event.

The analytical results of groundwater samples collected from Area 3 indicate that petroleum hydrocarbon concentrations continue to decrease over time. Additionally, the general decrease in TPHG concentrations in the downgradient direction (Figure 5) indicates that natural attenuation is occurring in this area. The TPHD plume present in Area 3 has been following a similar decreasing concentration trend as TPHG.

The groundwater elevations measured during this monitoring event were generally consistent with those reported during the January 2005, groundwater monitoring event. The groundwater flow direction during the June 6, 2005, monitoring event was to the south/southeast, and has remained consistent with historic flow patterns.

Groundwater monitoring was conducted at the site on a quarterly basis from January 1991 through December 2003. With the approval of the RWQCB, the monitoring frequency was reduced to a semi-annual event beginning in 2004. Petroleum hydrocarbon concentrations have generally shown a continual decreasing trend since the inception of groundwater monitoring, indicating that the petroleum hydrocarbons present are decreasing as a result of biodegradation. Groundwater elevation data collected from the site has demonstrated that the direction of groundwater flow does not change due to seasonal groundwater fluctuations.

SHN will continue semi-annual monitoring as required by the RWQCB. The next semi-annual monitoring event is scheduled to occur in December 2005.

5.0 References Cited

California Regional Water Quality Control Board, North Coast Region. (December 1, 2003). "*Arcata Redwood Company (Former) Smith River Sawmill, Smith River, California.*" Santa Rosa: RWQCB.

SHN Consulting Engineers & Geologists, Inc. (April 8, 2003). *First Quarter 2003 Groundwater Monitoring Report and Request for Closure, Arcata Redwood Company (Former) Smith River Sawmill, Smith River, California.* Eureka: SHN.

Appendix A
Field Notes



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 • E-mail: shninfo@shn-enr.com

DAILY FIELD REPORT

JOB NO

093047

Page 1 of 12

PROJECT NAME <i>Smith River</i>	CLIENT/OWNER <i>Arcata Rockwood Co.</i>	DAILY FIELD REPORT SEQUENCE NO <i>1</i>
GENERAL LOCATION OF WORK <i>Smith River, CA</i>	OWNER/CLIENT REPRESENTATIVE <i>Jeff Lane</i>	DATE <i>6-6-05</i> DAY OF WEEK <i>Monday</i>
TYPE OF WORK <i>Semi-annual Sampling</i>	WEATHER <i>Raining</i>	PROJECT ENGINEER/ SUPERVISOR <i>Frans Lowman</i>
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN <i>David R. Paine</i>

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

- 0755 arrived at site, removed lids and caps on all wells.
0850 Roland Rueben on site, he assisted me with taking water levels.
0914 we started taking water levels decommissioning the sounder after each well by scrubbing it with liquidot then rinsing it with DI water.
1015 Drillers showed up Roland off site.
1046 I started taking D'D readings on MW-7 then MW-19.
1058 Roland returned to site to assist me.
1101 we started purging WP-3 with the peristaltic pump and dedicated 3/8" poly hose in well, purge water was caught in a graduated 5 gal. bucket.
1120 I sampled WP-3, secured well.
1124 we started purging WP-1 with the peristaltic pump and dedicated 3/8" poly hose in the well, purge water was caught in a graduated 5 gal. bucket.
1150 Roland sampled WP-1 secured well.
1151 we started purging WP-2 with the peristaltic pump and dedicated 3/8" poly hose in the well, purge water was caught in a graduated 5 gal. bucket.
1215 Roland sampled WP-2 secured well.
1214 I took CO₂ and ORP readings on MW-7 using a disposable bailer.
1224 I took CO₂ and ORP readings on MW-19 using the same disposable bailer.
1230 Roland OFF SITE
1233 I started purging MW-19 with the well wizard controller and air compressor, purge water was caught in a graduated 5 gal. bucket.
1300 I sampled MW-19 out of 1/2" poly hose discharge, secured well with cap and lid.
1314 I started purging MW-21 with the well wizard controller and air compressor, purge water was caught in a graduated 5 gal. bucket.
1340 I sampled MW-21 out of 1/2" poly hose discharge, secured well with cap and lid.

COPY GIVEN TO:

REPORTED BY: *David R. Paine*



CONSULTING ENGINEERS & GEOLOGISTS, INC.

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DAILY FIELD REPORT

JOB NO	093047	
Page	2 of 12	
DAILY FIELD REPORT SEQUENCE NO	1	
DATE	6-6-05	DAY OF WEEK
PROJECT ENGINEER/ SUPERVISOR	Frans Lowman	
TECHNICIAN	David R. Pain	

PROJECT NAME
Smith River

CLIENT/OWNER
Anata Redwood Co.

DAILY FIELD REPORT SEQUENCE NO

GENERAL LOCATION OF WORK
Smith River, CA

OWNER/CLIENT REPRESENTATIVE
Jeff Lane

DATE
6-6-05

TYPE OF WORK
Semi-annual Sampling

WEATHER
Raining

DAY OF WEEK
Monday

SOURCE & DESCRIPTION OF FILL MATERIAL

KEY PERSONS CONTACTED

PROJECT ENGINEER/ SUPERVISOR

Frans Lowman

TECHNICIAN

David R. Pain

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

- 1340 I started purging MW-22 with the well wizard controller and air compressor, purge water was caught in a graduated 5 gal. bucket.
1420 I sampled MW-22 out of 1/2" poly hose discharge, secured well with cap and lid.
1440 OFF SITE

Note: All decon water and purge water was caught then poured into 2 - 50 gal. plastic drums that I brought in the trailer, then transported to SHN's 1,000 gal. PWST located at 812 W. Wabash Avenue EUREKA, CA 66 gallons total.

COPY GIVEN TO:

REPORTED BY: *David R. Pain*



Groundwater Elevations

Job No.:	093047	Name:	David R. Paine	
Client:	ARCATA REDWOOD COMPANY		Date:	6-6-05
Location:	SMITH RIVER, CA		Weather:	RAINING
Sample Location	Time of Reading	Top of Casing Elevation (feet)	Depth To Water (feet)	Water Surface Elevation (feet)
MW-1	9:26	90.00	12.18	77.82
MW-2	9:28	89.44	16.78	72.66
MW-3	9:30	88.59	13.70	74.89
MW-4	9:33	87.13	16.33	70.80
MW-5	9:24	87.13	14.82	72.31
MW-6		86.38	broken	71.16
MW-7	9:40	85.35	14.19	71.16
MW-8	10:02	91.34	13.11	78.23
MW-10	10:05	89.73	13.58	76.15
MW-11	9:57	90.62	5.57	85.11
MW-12	10:00	90.59	11.52	79.07
MW-13	9:55	88.92	8.46	80.46
MW-14	9:52	86.61	9.50	77.11
MW-15	9:51	86.69	7.22	79.47
MW-16	9:47	85.58	11.98	73.60
MW-17	9:48	85.04	9.51	75.53
MW-18	9:44	82.63	11.39	71.24
MW-19	10:26	80.08	10.83	69.25
MW-20	9:42	82.74	11.35	71.39
MW-21	10:17	79.69	10.39	69.30
MW-22	10:23	79.40	13.86	65.54
MW-23	9:35	84.18	15.06	69.12
MW-24	9:36	82.03	14.32	67.71
MW-25	9:20	79.56	10.35	69.21
MW-26	9:22	83.92	12.08	71.84
MW-27	9:17	76.40	17.34	59.06
MW-28	9:14	82.61	18.61	64.00



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EQUIPMENT CALIBRATION SHEET

Name:

David R. Paine

Project Name:

Smith River

Reference No.:

093047

Date:

6-6-05

Equipment:

pH & EC

PID

GTCO₂

GTLEL

Turbidity

Other

Dissolved Oxygen Meter YS195

Description of Calibration Procedure and Results:

pH & EC meter is calibrated using a 2 buffer method with 7.01 and 4.01, the EC (conductivity) is set at 1413 uS.

DO meter is self calibrating with the Altimeter set at 0.



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Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Pain
Location:	Smith River	Sample Type:	Ground water
Well #:	WP-1	Weather	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	No

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
	-		=		x		=	

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1124	1.86	90	30				0 gal	start
1131				267	56.4°	6.16	1 gal	
1137	↓			264	54.5°	6.21	2 gal	
1143	NO Flow			264	56.4°	6.18	3 gal	
	then 11							
1150								

Purge Method: Perristaltic pump

Total Volume Removed: 4.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
WP-1	3-40ml vials	YES HCl	NCL	TPH6 / BTEX
WP-1	2-60ml vials	NO	NCL	TPHD / mo

Well Condition: Good, no well box, just 4" pvc pipe stuck in ground

Remarks:



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Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Painter
Location:	Smith River	Sample Type:	Ground water
Well #:	WP-2	Weather:	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	No

$$\text{Total Well Depth (feet)} - \text{Initial Depth to Water (feet)} = \text{Height of Water Column (feet)} \times \frac{0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)}}{=} \text{1 Casing Volume (gal)}$$

Purge Method: Peristaltic pump

Total Volume Removed: 4.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
WP-2	3-40ml vials	YES HCl	NCL	TPH6 / B/TET
WP-2	2-60ml vials	NO	NCL	TPH6 / mo

Well Condition: Good, no well/1 ^{box} just $\frac{1}{2}$ " PVC pipe stuck in ground
Remarks:

Remarks:



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Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Painter
Location:	Smith River	Sample Type:	Ground water
Well #:	WP-3	Weather:	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	No

$$\text{Total Well Depth (feet)} - \text{Initial Depth to Water (feet)} = \text{Height of Water Column (feet)} \times \frac{0.163 \text{ gal/ft (2-inch well) /} \\ 0.653 \text{ gal/ft (4-inch well)}}{=} \text{1 Casing Volume (gal)}$$

Purge Method: Peristaltic pump

Total Volume Removed: 4.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
WP-3	3 - 40 ml vials	YES HCl	NCL	TPH6 / B7C+
WP-3	2 - 60 ml vials	NO	NCL	TPH6 / MO

Well Condition: Good, no well box, just 1/2" PVC pipe stuck in the ground

Remarks:



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Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Payne
Location:	Smith River, CA	Sample Type:	Ground water
Well #:	MW-7	Weather:	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES

$$\text{Total Well Depth (feet)} - \text{Initial Depth to Water (feet)} = \text{Height of Water Column (feet)} \times \frac{0.163 \text{ gal/ft (2-inch well)}}{0.653 \text{ gal/ft (4-inch well)}} = \text{1 Casing Volume (gal)}$$

16.45					
-------	--	--	--	--	--

Purge Method: Disposable bailer

Total Volume Removed: 0.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses

Well Condition: Good

Remarks:



Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Paine
Location:	Smith River	Sample Type:	Ground water
Well #:	mw-19	Weather	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES

$$\begin{array}{l} \text{Total Well Depth} \quad \text{Initial Depth to} \\ (\text{feet}) \quad \text{Water (feet)} \quad = \quad \text{Height of Water} \\ \boxed{17.30} \quad - \quad \boxed{10.83} \quad = \quad \boxed{6.47} \end{array} \quad \begin{array}{l} \times \quad 0.163 \text{ gal/ft (2-inch well) /} \\ \quad 0.653 \text{ gal/ft (4-inch well)} \end{array} \quad = \quad \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$
$$\times \quad \boxed{0.653} \quad = \quad \boxed{4.22}$$

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1058	0.80						0 gal.	
1224		80	15				0.25 gal.	
1233							9 gal. start	
1240	No flow			195	56.8°	6.02	4.50 gal.	
1247	thru cell			197	57°	6.06	8.50 gal.	
1254				197	57°	6.04	12.5 gal.	
1300	Sample Time							

Purge Method: Dedicated bladder pump and Total Volume Removed: 17.00 (gal)
Air compression

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
mw-19	3 - 40 ml vials	YES HCl	NCL	8010/8020
mw-19	3 - 40 ml vials	YES HCl	NCL	TPH/G/BTEX
mw-19	2 - 60 ml vials	No	NCL	TPH/D

Well Condition: Good

Remarks:

Recharged to 11.45 at sampling time



Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Paine
Location:	Smith River	Sample Type:	Ground water
Well #:	MW-21	Weather:	Raining
Hydrocarbon Thickness/Depth (feet):	NH	Key Needed:	YES

$$\begin{array}{l} \text{Total Well Depth} \quad \text{Initial Depth to} \\ (\text{feet}) \quad \text{Water (feet)} \end{array} = \begin{array}{l} \text{Height of Water} \\ \text{Column (feet)} \end{array} \times \begin{array}{l} 0.163 \text{ gal/ft (2-inch well)} / \\ 0.653 \text{ gal/ft (4-inch well)} \end{array} = \begin{array}{l} 1 \text{ Casing Volume} \\ (\text{gal}) \end{array}$$

17.10	-	10.39	=	6.71	x	0.653	=	4.39
-------	---	-------	---	------	---	-------	---	------

Time	DO (ppm)	CO ₂ (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1314							0 gal.	start
1320				133	54.1°	5.92	4.50 gal.	
1326				133	54.2°	5.95	9 gal.	
1333				133	54.2°	5.98	13 gal.	
1340								

Purge Method: Dedicated bladder pump and Total Volume Removed: 20.00 (gal)
Air compression

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-21	3 - 40ml vials	YES HCL	NCL	TPHG / BTEX
MW-21	2 - 60ml vials	NO	NCL	TPHD

Well Condition: Good

Remarks:

Recharged to 10.70 at sampling time



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Water Sampling Data Sheet

Project Name:	Smith River	Date/Time:	6-6-05
Project No.:	093047	Sampler Name:	David R. Paine
Location:	Smith River	Sample Type:	Ground water
Well #:	MW-22	Weather	Raining
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
19.06	-	13.86	=	5.20	x	0.653	=	3.40

Purge Method: Dedicated bladder pump and Air compression and Total Volume Removed: 16.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-22	3 - 40ml vials	yes HCl	NCL	TPhG / BTEX
MW-22	2 - 60 ml vials	No	NCL	TPhG

Well Condition: Good

Remarks:

Recharged to 15.51 at sampling Time

Client Name: **SMITH RIVER**

The water from your site: **HIGHWAY 101 SMITH RIVER, CA**

SHN ref #: **093047**

Collected On: **1/26-27/05**

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged:

77 GALLONS

Date Discharged: **2/28/05**

Certified by: **DAVID R. PAINÉ**

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Appendix B

Historic Monitoring Data

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
¹(in ug/L)

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2 DCB ⁴	1,4 DCB ⁵
MV-2	1/28/91	<0.5 ⁶	<0.5	<0.5	<0.5	310	-- ⁷	--	--	--
	4/29/91	<0.5	<0.5	<0.5	<0.5	250	--	--	--	--
	9/9/91	<0.5	<0.5	<0.5	<0.5	320	--	--	--	--
	11/18/91	--	--	--	--	180	--	--	--	--
	2/3/92	--	--	--	--	180	--	--	--	--
	5/4/92	--	--	--	--	230	--	--	--	--
	7/28/92	--	--	--	--	150	--	--	--	--
	10/12/92	--	--	--	--	190	--	--	--	--
	1/26/93	--	--	--	--	130	--	--	--	--
	4/19/93	--	--	--	--	200	--	--	--	--
	7/27/93	--	--	--	--	220	--	--	--	--
	10/27/93	--	--	--	--	200	--	--	--	--
	1/26/94	--	--	--	--	170	--	--	--	--
	4/26/94	--	--	--	--	170	--	--	--	--
	7/26/94	--	--	--	--	120	--	--	--	--
	11/1/94	--	--	--	--	200	--	--	--	--
	1/23/95	--	--	--	--	180	--	--	--	--
	4/13/95	--	--	--	--	160	--	--	--	--
	7/26/95	--	--	--	--	200	--	--	--	--
	10/31/95	--	--	--	--	250	--	--	--	--
	1/15/96	--	--	--	--	130	--	--	--	--
	4/30/96	--	--	--	--	180	--	--	--	--
	8/5/96	--	--	--	--	200	--	--	--	--
	10/29/96	--	--	--	--	300	--	--	--	--
	4/28/97	--	--	--	--	190	--	--	--	--
	10/15/97	--	--	--	--	220	--	--	--	--
	4/13/98	--	--	--	--	130	--	--	--	--
	11/23/98	--	--	--	--	150	--	--	--	--
	4/26/99	--	--	--	--	160	--	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	1,2-DCB ⁴	1,4-DCB ⁵
MW-2 (cont'd)	10/27/99	--	--	--	--	160	--	--	--	--	--
	4/27/00	--	--	--	--	130	--	--	--	--	--
MW-4	1/28/91	<0.5	<0.5	<0.5	<0.5	190	--	--	--	--	--
	4/29/91	<0.5	<0.5	<0.5	<0.5	210	--	--	--	--	--
	9/9/91	<0.5	<0.5	<0.5	<0.5	150	--	--	--	--	--
	11/18/91	--	--	--	--	160	--	--	--	--	--
	2/3/92	--	--	--	--	180	--	--	--	--	--
	5/4/92	--	--	--	--	240	--	--	--	--	--
	7/28/92	--	--	--	--	100	--	--	--	--	--
	10/13/92	--	--	--	--	68	--	--	--	--	--
	1/26/93	--	--	--	--	<50	--	--	--	--	--
	4/19/93	--	--	--	--	65	--	--	--	--	--
	7/27/93	--	--	--	--	120	--	--	--	--	--
	10/27/93	--	--	--	--	100	--	--	--	--	--
	1/26/94	--	--	--	--	110	--	--	--	--	--
	4/26/94	--	--	--	--	120	--	--	--	--	--
	7/27/94	--	--	--	--	83	--	--	--	--	--
	11/1/94	--	--	--	--	83	--	--	--	--	--
	1/23/95	--	--	--	--	<50	--	--	--	--	--
	4/13/95	--	--	--	--	<50	--	--	--	--	--
	7/26/95	--	--	--	--	120	--	--	--	--	--
	10/31/95	--	--	--	--	<50	--	--	--	--	--
	1/15/96	--	--	--	--	<50	--	--	--	--	--
	4/30/96	--	--	--	--	<50	--	--	--	--	--
	8/5/96	--	--	--	--	87	--	--	--	--	--
	10/29/96	--	--	--	--	140	--	--	--	--	--
	4/28/97	--	--	--	--	<50	--	--	--	--	--
	10/15/97	--	--	--	--	130	--	--	--	--	--
	4/13/98	--	--	--	--	<50	--	--	--	--	--
	11/23/98	--	--	--	--	88	--	--	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-4 (cont'd)	4/26/99	--	--	--	--	<50	--	--	--	--
	10/27/99	--	--	--	--	59	--	--	--	--
	4/27/00	--	--	--	--	<50	--	--	--	--
	4/25/01	--	--	--	--	<50	--	--	--	--
	4/29/02	--	--	--	--	<50	--	--	--	--
	7/29/03	--	--	--	--	<50	--	--	--	--
	1/29/04	--	--	--	--	<50	--	--	--	--
	1/27/05	--	--	--	--	<50	--	--	--	--
MW-7	1/29/91	<0.5	<0.5	<0.5	<0.5	80	<50	--	<1.0	<1.0
	11/18/91	<0.5	<0.5	<0.5	14	100	540	--	--	--
	2/3/92	<0.5	<0.5	<0.5	<0.5	72	110	--	--	--
	5/4/92	<0.5	<0.5	<0.5	<0.5	67	<50	--	--	--
	1/26/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/19/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/27/93	<0.5	<0.5	<0.5	0.85	68	57	--	--	--
	1/26/94	<0.5	<0.5	<0.5	0.7	51	<50	--	--	--
	4/26/94	<0.5	<0.5	<0.5	11	62	140	--	--	--
	11/1/94	<0.5	<0.5	<0.5	13	60	290	--	--	--
	1/23/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/13/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/15/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/30/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/29/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/28/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/15/97	<0.5	<0.5	<0.5	<0.5	68	<50	--	--	--
	4/13/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/23/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/26/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/27/00	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
 (in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-7 (cont'd)	4/25/01	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/29/03	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/29/04	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/27/05	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
MW-8	1/28/91	10	4.9	4.2	15.9	<50	1,100	--	<1.0	<1.0
	4/29/91	<0.5	<0.5	<0.5	12.8	54	1,700	--	<1.0	<1.0
	9/9/91	8.6	<5.0	9.2	8.2	<50	880	--	<1.0	<1.0
	11/19/91	4.9	<4.0	<4.0	<4.0	<50	1,600	--	<1.0	<1.0
	2/3/92	<2.0	<2.0	<2.0	<2.0	<50	720	--	<1.0	<1.0
	5/4/92	<1.0	<2.0	<1.0	<2.0	<50	550	--	<1.0	<1.0
	7/28/92	5.8	<5.0	<3.0	<3.0	<50	1,800	--	<1.0	<1.0
	10/12/92	5	<4.0	<4.0	5.1	65	1,100	--	<1.0	<1.0
	1/26/93	<0.5	<0.5	<0.5	<0.5	<50	360	--	<0.5	<0.5
	4/19/93	2.1	1.8	12	10.63	<50	740	--	<1.0	<1.0
	7/27/93	7.8	<7.0	23	13.5	<50	2,100	--	<1.0	<1.0
	10/27/93	5.2	3.9	18	8.3	<50	1,000	--	<1.0	<1.0
	1/26/94	<1.0	<1.0	4.5	3.8	<50	410	--	<1.0	<1.0
	4/26/94	<6.0	<6.0	9.3	3.6	<50	650	--	<1.0	<1.0
	7/26/94	7.3	<5.0	22	8.5	<50	<50	--	<1.0	<1.0
	11/1/94	7.7	<10	25	16	--	1,600	--	--	--
	1/23/95	0.69	1.4	3.3	2.7	--	290	--	--	--
	4/13/95	<0.5	1.1	2.9	2.2	--	210	--	--	--
	7/26/95	6.3	6	16	14.4	--	680	--	--	--
	10/31/95	8.3	4.4	24	14	--	1,200	--	--	--
	1/15/96	<0.5	<0.5	1.5	0.96	--	<50	--	--	--
	4/30/96	<0.5	<0.5	<0.5	<0.5	--	<50	--	--	--
	8/5/96	7.6	3.8	20	15.1	--	700	--	--	--
	10/29/96	1.7	<0.5	4.8	2.4	<50	160	--	--	--
	4/28/97	0.87	<1.0	2.5	1.8	<50	150	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
 (in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethylnbenzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-8 (cont'd)	10/15/97	2.7	<2.0	6.7	5.1	--	360	--	--	--
	4/13/98	0.96	<2.0	3.1	2.1	--	170	--	--	--
	11/23/98	3	<5.0	12	9.75	--	540	--	--	--
	4/26/99	4	4.8	14	10.6	--	780	--	--	--
	10/27/99	2.2	<4.0	6.7	<4.0	--	82	--	--	--
	4/27/00	<6.0	<6.0	6.7	4.4	--	400	--	--	--
MW-10	1/28/91	<0.5	<0.5	<0.5	<0.5	100	450	<1,000	<1.0	<1.0
	4/30/91	<0.5	<0.5	<0.5	<0.5	79	380	<1,000	<1.0	<1.0
	11/19/91	<5.0	<5.0	<5.0	<5.0	52	360	--	--	--
	2/3/92	<5.0	<5.0	<5.0	<5.0	<50	660	--	--	--
	5/4/92	<1.0	<1.0	<2.0	<2.0	<50	350	--	--	--
	1/26/93	<0.5	<0.5	<5.0	<5.0	55	280	--	--	--
	4/20/93	<0.5	<0.5	<0.5	<2.0	<50	210	--	--	--
	7/27/93	<2.0	<5.0	<8.0	<8.0	<50	520	--	--	--
	1/26/94	<0.5	<0.5	<4.0	<4.0	<50	450	--	--	--
	4/26/94	<0.5	<2.0	<3.0	<5.0	<50	300	--	--	--
	11/1/94	<1.0	<2.0	3.6	2	--	580	--	--	--
	1/23/95	<0.5	<0.5	<3.0	<3.0	<50	200	--	--	--
	4/13/95	<0.5	<0.5	<2.0	<2.0	81	110	--	--	--
	7/26/95	<0.5	0.72	<1.5	<1.5	<50	140	--	--	--
	1/15/96	<0.5	<1.0	<2.0	<2.0	<50	110	--	--	--
	4/30/96	<0.5	<0.5	<0.5	<1.5	55	99	--	--	--
	10/29/96	<0.5	<0.5	<1.0	<0.5	55	120	--	--	--
	4/28/97	<0.5	<0.5	<0.5	<0.5	<50	170	--	--	--
	10/15/97	<0.5	<0.5	0.85	0.56	51	180	--	--	--
	4/13/98	<0.5	<0.5	<1.5	<1.5	53	93	--	--	--
	11/23/98	<0.5	<0.5	0.55	<0.5	51	190	--	--	--
	4/26/99	<0.5	<0.5	<0.5	<0.5	<50	100	--	--	--
	10/27/99	<1.0	<2.0	2.1	<2.0	58	100	--	--	--
	4/27/00	<0.5	<1.0	<1.0	<1.0	<50	220	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-12	1/29/91	4.6	4	19	44	300	1,800	--	--	--
	4/30/91	2.4	4.9	11	57	250	1,500	--	--	--
	9/9/91	<5.0	<5.0	6.8	63	260	1,500	--	--	--
	11/19/91	7.8	7	15	52	250	1,400	--	--	--
	2/4/92	<2.5	<2.5	2.7	21	190	1,000	--	--	--
	5/4/92	2.2	3.3	10	26	200	760	--	--	--
	7/28/92	3.6	7.5	4.5	49.1	240	1,300	--	--	--
	10/12/92	3.7	6.7	3.3	50.4	320	970	--	--	--
	1/27/93	<0.5	<1.0	<1.0	<5.0	110	570	--	--	--
	4/20/93	<0.5	<0.5	<0.5	2.16	72	230	--	--	--
	7/27/93	2.6	7.6	4.5	40.7	160	650	--	--	--
	10/27/93	2.5	5.4	2.5	40.7	220	710	--	--	--
	1/27/94	<0.5	0.6	<0.5	1.53	160	200	--	--	--
	4/27/94	0.89	2.2	2.3	5.3	100	490	--	--	--
	7/26/94	1.9	5.1	2.2	28.6	170	760	--	--	--
	11/1/94	2	<5.0	2.9	13.7	320	710	--	--	--
	1/23/95	<0.5	<0.5	<0.5	<0.5	110	110	--	--	--
	4/13/95	<0.5	<0.5	<0.5	<0.5	74	<50	--	--	--
	7/26/95	<0.5	0.98	0.71	8.1	140	140	--	--	--
	10/31/95	0.55	0.91	0.67	8.1	190	230	--	--	--
	1/15/96	<0.5	<0.5	<0.5	<0.5	78	<50	--	--	--
	4/30/96	<0.5	<0.5	<0.5	<0.5	87	<50	--	--	--
	8/5/96	0.51	1.6	1.4	5.68	110	160	--	--	--
	10/29/96	<0.5	<0.5	0.52	2.4	190	95	--	--	--
	4/28/97	<0.5	<0.5	0.75	<0.5	63	84	--	--	--
	10/16/97	<0.5	<0.5	0.64	2.2	140	180	--	--	--
	4/14/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/24/98	<0.5	<0.5	<0.5	<0.5	69	<50	--	--	--
	4/26/99	<0.5	<0.5	0.84	71	<50	--	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
¹(in ug/L)

Sample Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-12 (cont'd)	10/27/99	<0.5	0.55	<0.5	0.87	99	<50	--	--	--
MW-14	4/27/00	<0.5	<1.0	<0.5	<0.5	53	91	--	--	--
	1/29/91	2.2	1.9	1.7	12	480	470	--	--	--
4/30/91	2.1	1.9	1.9	10	510	470	--	--	--	--
	9/9/91	<3.0	2.7	1.7	6	320	620	--	--	--
11/19/91	<5.0	<5.0	<5.0	<5.0	240	610	--	--	--	--
	2/4/92	<3.0	<3.0	<3.0	3.4	750	550	--	--	--
5/5/92	1.5	1.5	1.4	4.8	500	320	--	--	--	--
	7/29/92	<3.0	2.7	<3.0	<3.0	330	570	--	--	--
10/13/92	2.2	3.2	<2.0	<2.0	350	520	--	--	--	--
	1/27/93	1.7	1.6	2	5.6	430	700	--	--	--
4/20/93	1	1.2	1.3	4.6	290	490	--	--	--	--
	7/27/93	2	3.8	2.4	5.4	360	680	--	--	--
10/28/93	1.7	2.8	<3.0	<3.0	370	540	--	--	--	--
	1/27/94	0.99	2	<3.0	<3.0	580	550	--	--	--
4/27/94	1.2	1.3	1.6	3.3	480	530	--	--	--	--
	7/27/94	1.2	2.3	<3.0	<3.0	360	560	--	--	--
11/1/94	1.4	<3.0	<3.0	<3.0	620	690	--	--	--	--
	1/24/95	0.59	1.1	1.5	3.1	720	480	--	--	--
4/13/95	0.58	0.91	1.4	3.5	410	390	--	--	--	--
	7/26/95	<0.5	0.92	1.0	2.47	380	360	--	--	--
10/31/95	0.58	0.92	0.92	1.5	380	260	--	--	--	--
	1/15/96	0.58	1.2	1	0.91	300	230	--	--	--
4/30/96	<0.5	<1.0	1.1	1.3	330	230	--	--	--	--
	8/5/96	<0.5	0.71	1.0	0.67	440	320	--	--	--
10/30/96	<0.5	<1.0	0.64	0.63	520	140	--	--	--	--
	4/28/97	<0.5	<1.0	0.77	0.53	440	220	--	--	--
10/16/97	<0.5	<2.0	0.91	0.62	470	250	--	--	--	--
	4/14/98	<0.5	<1.6	0.92	0.68	250	370	--	--	--
11/24/98	<0.5	<1.0	0.83	0.58	380	280	--	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-14 (cont'd)	4/26/99	<0.5	1.4	0.87	0.79	350	250	--	--	--
	10/27/99	<0.5	<1.5	<2.0	<1.5	370	180	--	--	--
	4/27/00	<0.5	<2.0	<2.0	<2.0	190	340	--	--	--
MW-15	1/29/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/30/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	9/10/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/19/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/27/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/20/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/13/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/30/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/28/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/14/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/26/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/27/00	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
MW-16	1/29/91	<0.5	<0.5	<0.5	<0.5	200	<50	<1,000	<1.0	<1.0
	4/30/91	<0.5	<0.5	<0.5	0.54	250	63	<1,000	<1.0	<1.0
	9/10/91	<1.0	<1.0	<1.0	<0.5	180	<50	<1,000	<1.0	<1.0
	11/19/91	<0.5	<0.5	<0.5	<0.5	120	<50	--	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	58	<50	<1,000	--	--
	5/5/92	<0.5	<0.5	<0.5	<0.5	130	<50	<1,000	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-16 (cont'd)	7/29/92	<0.5	<0.5	<0.5	<0.5	87	<50	<1,000	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	97	<50	<1,000	--	--
	1/27/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<1,000	--	--
	4/20/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<1,000	--	--
	7/28/93	<0.5	<0.5	<0.5	<0.5	120	<50	<1,000	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	130	<50	<1,000	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<1,000	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<1,000	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	100	<50	<1,000	--	--
	11/1/94	--	--	--	--	500	--	--	--	--
	1/24/95	--	--	--	--	<50	--	--	--	--
	4/13/95	--	--	--	--	<50	--	--	--	--
	7/27/95	--	--	--	--	84	--	--	--	--
	11/1/95	--	--	--	--	<50	--	--	--	--
	1/16/96	--	--	--	--	<50	--	--	--	--
	5/1/96	--	--	--	--	64	--	--	--	--
	8/6/96	--	--	--	--	120	--	--	--	--
	10/30/96	--	--	--	--	100	--	--	--	--
	4/28/97	--	--	--	--	<50	--	--	--	--
	10/16/97	--	--	--	--	94	--	--	--	--
	4/14/98	--	--	--	--	<50	--	--	--	--
	11/24/98	--	--	--	--	<50	--	--	--	--
	4/26/99	--	--	--	--	55	--	--	--	--
	10/28/99	--	--	--	--	120	--	--	--	--
	4/27/00	--	--	--	--	<50	--	--	--	--
MW-17	1/29/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/30/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	9/10/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/19/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
 (in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-17 (cont'd)	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/20/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/13/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	5/1/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/28/97	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/26/99	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/27/00	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
MW-18	1/25/90	<0.5	<0.5	<0.5	<0.5	160	<50	--	<1.0	<1.0
	5/1/90	<0.5	<0.5	<0.5	<0.5	114	<50	--	<1.0	<1.0
	11/7/90	<0.5	<0.5	<0.5	<0.5	110	<50	--	--	--
	1/29/91	<0.5	<0.5	<0.5	<0.5	220	<50	--	--	--
	4/30/91	<0.5	<0.5	<0.5	<0.5	250	<50	--	--	--
	9/10/91	<0.5	<0.5	<0.5	<0.5	110	<50	--	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	97	52	--	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	71	<50	--	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	110	<50	--	--	--
	7/27/95	<0.5	<0.5	<0.5	<0.5	110	<50	--	--	--
	11/1/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	8/6/96	<0.5	<0.5	<0.5	<0.5	89	<50	--	--	--
	10/25/00	<0.5	<0.5	<0.5	<0.5	89	<50	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
¹(in ug/l)

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-19	1/29/91	<0.5	1.9	<0.5	1114	890	45,000	--	<1.0	1.3
	4/30/91	<0.5	<0.5	<0.5	1114	810	45,000	--	<1.0	<1.0
	9/10/91	<1.0	3.2	2.4	905	550	38,000	--	<1.0	<1.0
	11/19/91	<1.0	3	<1.0	842	580	38,000	--	<1.0	<1.0
	2/4/92	<1.0	2.5	1.6	1817	740	47,000	--	<1.0	<1.0
	5/5/92	<0.5	1.7	2.7	657	520	29,000	--	<1.0	<1.0
	7/29/92	<1.0	2.4	2	1014	420	37,000	--	<1.0	<1.0
	10/13/92	<1.0	2.8	3.2	1019	360	29,000	--	<1.0	<1.0
	1/27/93	<0.5	0.7	<0.5	810	390	53,000	--	1.6	<0.5
	4/20/93	<1.0	<1.0	1.8	816	140	25,000	--	<2.0	<1.0
	7/28/93	<1.0	1.1	2.7	560	470	31,000	--	<1.0	<1.0
	10/28/93	<1.0	1.8	2.9	851	580	23,000	--	<1.0	<1.0
	1/27/94	<1.0	1.3	2.5	993	600	42,000	--	1.3	1.6
	4/27/94	<1.0	<1.0	<1.0	295.9	340	15,000	--	<1.0	<1.0
	7/27/94	<1.0	1.7	569.4	660	29,000	--	<1.0	<1.0	<1.0
	11/1/94	<1.0	2.5	1.1	306.6	440	25,000	--	<1.0	<1.0
	1/24/95	<10.0	<10.0	467.2	380	17,000	--	<1.0	<1.0	<1.0
	4/13/95	<0.5	0.68	1.9	643	500	25,000	--	1.4	<1.0
	7/27/95	<0.5	0.67	0.98	163.2	310	6,700	--	1.4	<1.0
	11/1/95	<0.5	1.0	1.6	307.2	320	16,000	--	1.9	<1.0
	1/16/96	<0.5	0.95	1.8	262	150	28,000	--	1.6	<1.0
	5/1/96	<0.5	0.53	0.72	174.2	170	10,000	--	<1.0	<1.0
	8/6/96	<0.5	<0.5	0.86	142.8	380	7,800	--	1.2	<1.0
	10/30/96	1	1.9	1.1	387.4	570	9,800	--	1.1	<1.0
	1/28/97	<0.5	<0.5	0.8	256	260	12,000	--	<1.0	<1.0
	4/28/97	<0.5	0.62	1.2	379	300	15,000	--	1.7	<1.0
	7/29/97	<0.5	0.74	1.4	217	150	13,000	--	<1.0	<1.0
	10/16/97	<0.5	1.2	1.2	206.9	320	13,000	--	<1.0	<1.0
	1/26/98	<0.5	<0.5	0.69	204.6	120	9,100	--	2.7	<3.0
	4/14/98	<0.5	0.76	1.8	521	210	33,000	--	<100	<100

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
¹(in ug/L)

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-19 (cont'd)	7/27/98	<0.5	0.89	1.6	246.1	470	14,000	--	<2.0	<1.0
	11/24/98	<1.0	<1.0	<1.0	175	240	15,000	--	<2.0	<1.0
	1/27/99	<0.5	<0.5	<0.5	58	65	3,300	--	<1.0	<1.0
	4/27/99	<0.5	<0.5	0.59	80.7	180	6,300	--	<1.0	<1.0
	10/28/99	<0.5	0.75	0.79	215	220	11,000	--	<1.0	<1.0
	1/18/00	<0.5	<0.5	<0.5	42.61	75	3,600	--	<1.0	<1.0
	4/27/00	<0.5	<0.5	<0.5	121.6	67	5,200	--	<1.0	<1.0
	7/25/00	<0.5	<0.5	<0.5	69.3	150	5,700	--	<1.0	<1.0
	10/25/00	<0.5	<0.5	<0.5	67.2	330	4,900	--	<1.0	<1.0
	1/29/01	<0.5	<0.5	<0.5	112.2	1,600	5,000	--	<1.0	<1.0
	4/25/01	<0.5	<0.5	<0.5	97.9	250	5,400	--	<1.0	<1.0
	7/25/01	<0.5	<0.5	<0.5	112.8	350	5,700	--	<1.0	<1.0
	11/1/01	<0.5	0.82	0.74	265.2	590	12,000	--	<1.0	<1.0
	1/29/02	<0.5	<0.5	<0.5	31	96	920	--	<1.0	<1.0
	4/29/02	<0.5	<0.5	<0.5	100.6	280	4,400	--	<1.0	<1.0
	7/29/02	<0.5	<0.5	<0.5	79.3	260	3,800	--	<1.0	<1.0
	10/31/02	<0.5	<0.5	0.77	193.7	330	10,000	--	<1.0	<1.0
	1/30/03	<0.5	<0.5	<0.5	33	150	1,000	--	<1.0	<1.0
	7/29/03	<1.0	1.8	<1.0	54.88	250 ¹¹	3,000 ⁹	--	<1.0	<1.0
	1/29/04	<0.5	<0.5	<0.5	81	140 ^{8,11}	1,300 ⁹	--	<1.0	<1.0
	6/28/04	<0.50	<0.50	<0.50	30	140 ¹¹	1,700 ⁹	--	--	<1.0
	1/27/05	<0.50	<0.50	<0.50	94.6	140	4,000 ¹⁰	--	<1.0	<1.0
	6/6/05	<0.50	<0.50	<0.50	77.2	210	4,100	--	<1.0	<1.0
MW-20	1/29/91	<0.5	<0.5	<0.5	<0.5	110	<50	--	<1.0	<1.0
	4/30/91	<0.5	<0.5	<0.5	<0.5	80	<50	--	<1.0	<1.0
	9/10/91	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	11/20/91	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	2/4/92	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	5/5/92	<1.0	<1.0	<1.0	<0.5	81	<50	--	<1.0	<1.0
	7/29/92	<1.0	<1.0	<1.0	<0.5	<50	83	--	<1.0	<1.0

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-20 (cont'd)	10/13/92	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	1/27/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	<0.5
	4/20/93	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	7/28/93	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	10/28/93	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	1/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	4/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	7/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	4/14/95	<0.5	<0.5	<0.5	<0.5	60	<50	<50	--	--
	7/27/95	--	--	--	--	71	--	--	--	--
	1/16/96	--	--	--	--	<50	--	--	--	--
	5/1/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	8/6/96	--	--	--	--	<50	--	--	--	--
	10/30/96	--	--	--	--	71	--	--	--	--
	1/28/97	--	--	--	--	<50	--	--	--	--
	4/29/97	--	--	--	--	<50	--	--	--	--
	7/29/97	--	--	--	--	<50	--	--	--	--
	10/16/97	--	--	--	--	61	--	--	--	--
	1/26/98	--	--	--	--	87	--	--	--	--
	4/14/98	--	--	--	--	<50	--	--	--	--
	7/27/98	--	--	--	--	<50	--	--	--	--
	11/24/98	--	--	--	--	<50	--	--	--	--
	1/27/99	--	--	--	--	<50	--	--	--	--
	10/28/99	--	--	--	--	<50	--	--	--	--
	1/18/00	--	--	--	--	<50	--	--	--	--
	4/27/00	--	--	--	--	<50	--	--	--	--
MW-21	2/4/92	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	5/5/92	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	7/29/92	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0
	10/13/92	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	<1.0

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHGX ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-21 (cont'd)	1/27/93	<0.5	<0.5	<0.5	0.8	<50	<50	--	<0.5	<0.5
	4/20/93	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	7/28/93	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	10/28/93	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	1/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	4/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	7/27/94	<1.0	<1.0	<1.0	<0.5	<50	<50	--	<1.0	<1.0
	4/14/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	5/1/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/30/96	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/28/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/29/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/29/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/16/97	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/26/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/14/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/27/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/24/98	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/28/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/28/99	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/28/00	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/29/01	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/25/01	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/25/01	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/1/01	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
 (in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyln-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-21 (cont'd)	4/30/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/31/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/30/03	<0.5	<0.5	<0.5	<1.0	68	<50	<50	--	--
	7/29/03	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/29/04	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	6/28/04	<0.50	<0.50	<0.50	<0.50	<50	<50	<50	--	--
	1/27/05	<0.50	<0.50	<0.50	<0.50	63	<50	<50	--	--
	6/6/05	<0.50	<0.50	<0.50	<0.50	<50	<50	<50	--	--
	1/29/91	<0.5	<0.5	<0.5	121	320	7,500	--	<1.0	<1.0
MW-22	5/1/91	<0.5	<0.5	<0.5	392	300	15,000	--	<1.0	<1.0
	9/11/91	<1.0	<1.0	<1.0	48	140	3,100	--	<1.0	<1.0
	11/20/91	<1.0	<1.0	<1.0	68	120	3,600	--	<1.0	<1.0
	2/4/92	<1.0	<1.0	<1.0	211	250	5,100	--	<1.0	<1.0
	5/5/92	<1.0	<1.0	<1.0	152	220	6,000	--	<1.0	<1.0
	7/29/92	<1.0	<1.0	<1.0	44	170	3,700	--	<1.0	<1.0
	10/13/92	<1.0	<1.0	<1.0	19	79	920	--	<1.0	<1.0
	1/27/93	<0.5	<0.5	<0.5	320	180	18,000	--	<0.5	<0.5
	4/20/93	<1.0	<1.0	<1.0	282.7	98	7,700	--	<1.0	<1.0
	7/28/93	<1.0	<1.0	<1.0	121.6	190	6,200	--	<1.0	<1.0
	10/28/93	<1.0	<1.0	<1.0	21.4	170	1,700	--	<1.0	<1.0
	1/27/94	<1.0	<1.0	<1.0	141.5	170	6,400	--	<1.0	<1.0
	4/27/94	<1.0	<1.0	<1.0	101.2	180	3,800	--	<1.0	<1.0
	7/27/94	<1.0	<1.0	<1.0	11	170	1,900	--	<1.0	<1.0
	11/1/94	<2.5	<2.5	<2.5	22	170	2,200	--	--	--
	1/24/95	<2.5	<2.5	<2.5	54	140	2,900	--	--	--
	4/14/95	<0.5	<0.5	<0.5	131.3	170	3,200	--	--	--
	7/27/95	<0.5	<0.5	<0.5	1.6	<50	190	--	--	--
	11/1/95	<0.5	<0.5	<0.5	0.77	<50	360	--	--	--
	1/16/96	<0.5	<0.5	<0.5	81.56	61	2,200	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-22 (cont'd)	5/1/96	<0.5	<0.5	<0.5	51.53	100	2,000	--	--	--
	8/6/96	<0.5	<0.5	<0.5	3.2	88	370	--	--	--
	10/30/96	<0.5	<0.5	<0.5	10	140	570	--	--	--
	1/28/97	<0.5	<0.5	<0.5	5.3	96	350	--	--	--
	4/29/97	<0.5	<0.5	<0.5	32	87	1,300	--	--	--
	7/29/97	<0.5	<0.5	<0.5	14	<50	870	--	--	--
	10/16/97	<0.5	<0.5	<0.5	15	100	670	--	--	--
	1/26/98	<5.0	<5.0	<5.0	34	110	2,000	--	--	--
	4/14/98	<5.0	<5.0	<5.0	46.73	74	1,900	--	--	--
	7/27/98	<5.0	<5.0	<5.0	11	110	1,000	--	--	--
	11/24/98	<0.5	<0.5	<0.5	41	71	990	--	--	--
	1/27/99	<0.5	<0.5	<0.5	<0.5	<50	86	--	--	--
	4/27/99	<0.5	<0.5	<0.5	9.8	<50	430	--	--	--
	10/28/99	<0.5	<0.5	<0.5	2.4	<50	340	--	--	--
	1/18/00	<0.5	<0.5	<0.5	<0.5	<50	68	--	--	--
	4/28/00	<0.5	<0.5	<0.5	<0.5	<50	380	--	--	--
	7/25/00	<0.5	<0.5	<0.5	8.6	59	800	--	--	--
	10/25/00	<0.5	<0.5	<0.5	0.91	95	74	--	--	--
	1/29/01	<0.5	<0.5	<0.5	2.5	120	120	--	--	--
	4/25/01	<0.5	<0.5	<0.5	2.7	<50	190	--	--	--
	7/25/01	<0.5	<0.5	<0.5	0.67	85	350	--	--	--
	11/1/01	<0.5	<0.5	<0.5	<0.5	74	58	--	--	--
	1/29/02	<0.5	2.2	<0.5	<0.5	<50	<50	--	--	--
	4/30/02	<0.5	<0.5	<0.5	2.6	91	120	--	--	--
	7/29/02	<0.5	<0.5	<0.5	1.9	86	470	--	--	--
	10/31/02	<0.5	<0.5	<0.5	<0.5	75	59	--	--	--
	10/31/02	<0.5	<0.5	<0.5	<0.5	75	59	--	--	--
	1/30/03	<0.5	<0.5	<0.5	<1.0	<50	<50	--	--	--
	7/29/03	<0.5	<0.5	<0.5	<1.0	<50	<50	--	--	--
	1/29/04	<0.5	<0.5	<0.5	<1.0	<50	<50	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-22 (cont'd)	6/28/04	<0.50	<0.50	<0.50	<0.50	54 ⁸	<50	--	--	--
	1/27/05	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--
	6/6/05	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--
MW-25	8/1/90	0.6	<0.5	<0.5	<0.5	<50	--	--	--	--
	11/8/90	<0.5	<0.5	<0.5	<0.5	68	--	--	--	--
	1/30/91	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	5/1/91	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	9/11/91	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	11/12/91	--	--	--	--	<50	<50	--	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	1/27/93	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	4/20/93	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	1/30/91	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	5/1/91	<0.5	<0.5	<0.5	<0.5	<50	--	--	--	--
	9/11/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	11/20/91	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	4/20/93	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethylnbenzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
MW-25 (cont'd)	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
UP DC ¹²	8/1/90	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/18/90	<1.0	<1.0	<1.0	<0.5	150	<50	<50	--	--
	1/30/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	<1.0
	5/1/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	9/11/91	<1.0	<1.0	<1.0	<0.5	<50	<50	<50	--	--
	11/20/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/21/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	8/6/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/30/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/26/98	<0.5	<0.5	<0.5	<0.5	74	<50	<50	--	--
	4/14/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/24/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California

Sample Location	Date	Benzene	Toluene	Ethyln-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
UP DC (cont'd)	4/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	10/28/99	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	1/18/00	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	4/28/00	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	7/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	10/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	4/25/01	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	11/1/01	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	1/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	4/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	7/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	10/31/02	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	1/30/03	<0.5	<0.5	<0.5	<1.0	<50	<50	-	-	-
LOW DC ¹³	4/29/03	<0.5	<0.5	<0.5	<1.0	<50	<50	-	-	-
	7/29/03	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	8/1/90	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	11/8/90	<1.0	<1.0	<1.0	<0.5	<50	<50	-	-	-
	1/30/91	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	5/1/91	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	9/11/91	<1.0	<1.0	<1.0	<0.5	<50	<50	-	-	-
	11/20/91	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	2/4/92	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	5/5/92	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	7/29/92	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	10/13/92	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	1/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	4/21/93	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	7/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	10/28/93	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-
	1/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	-	-	-

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
 (in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
LOW DC (cont'd)	4/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/1/94	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/24/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/13/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/1/95	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/16/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	5/1/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	8/6/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/30/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/28/97	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/29/97	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/29/97	<0.5	<0.5	<0.5	<0.5	84	<50	<50	--	--
	1/26/98	<0.5	<0.5	<0.5	<0.5	67	<50	<50	--	--
	4/14/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/27/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/24/98	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/27/99	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/28/99	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/18/00	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/28/00	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	10/25/00	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/25/01	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	11/1/01	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	1/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	4/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--
	7/29/02	<0.5	<0.5	<0.5	<0.5	<50	<50	<50	--	--

Table B-1
Historic Summary of Analytical Results from Groundwater and Surface Water
Collected at Arcata Redwood, Smith River Sawmill, California
(in ug/L)¹

Sample Location	Date	Benzene	Toluene	Ethyln-benzene	Total Xylenes	TPHD ²	TPHG ²	TPHIR ²	EPA 8010/8020 ³	
									1,2-DCB ⁴	1,4-DCB ⁵
LOW DC (cont'd)	10/31/02	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--
	1/30/03	<0.5	<0.5	<0.5	<1.0	<50	<50	--	--	--
	4/29/03	<0.5	<0.5	<0.5	<1.0	<50	<50	--	--	--
	7/29/03	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--

1. ug/L: micrograms per Liter; same as parts per billion (ppb)

2. TPHD: Total Petroleum Hydrocarbons as Diesel; TPHG: TPH as Gasoline; TPCHR: TPH by infrared spectrometry

3. Volatile Organics from EPA 8010 and 8020 that have not been detected are not listed in the table.

4. 1,2-DCB: 1,2-Dichlorobenzene

5. 1,4-DCB: 1,4-Dichlorobenzene

6. <: denotes a value that is "less than" the laboratory method detection limit.

7. --: Indicates analysis not conducted

8. Sample contains material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil; all diesel results reported represent the amount of material in the diesel range of molecular weights only

9. Sample does not have the typical pattern of fresh gasoline. The results reported represent the amount of material in the gasoline range

10. Detection limit was raised due to matrix interference

11. Sample contains some material of lighter molecular weight than diesel

12. UP DC: "Upper" Dominie Creek sample station located above bridge, approximately 300 feet above DCBM-1

13. LOW DC: "Lower" Dominie Creek sample station located downstream from site, approximately 100 feet below DCBM-4

Table B-2
Historic Groundwater Analytical Results, Well Point Locations
Arcata Redwood Company, Smith River, California
(in ug/L)¹

Sample Location	Sample Date	TPHG ²	TPHD ³	TPHMO ⁴	B ⁵	T ⁵	E ⁵	X ⁵	MTBE ⁶
WP-1	11/14/97	37,000	NA ⁷	NA	<10 ^{8,9}	<10 ⁹	<10 ⁹	<10 ⁹	<100 ⁹
	12/22/97	39,000	730	<500	<0.5	1.6	3.1	1,006	<5.0 ⁹
	1/26/98	34,000	470	<500	<0.5	0.8	2.3	623	<5.0 ⁹
	4/15/98	55,000	350	<500	<0.5	1	2.1	866	<5.0 ⁹
	7/27/98	33,000	750	610	<25 ⁹	<25 ⁹	<25 ⁹	550	<250
	11/24/98	48,000	470	<500	<0.5	1.2	2.9	685	<5.0 ⁹
	1/27/99	47,000	780	<500	<0.5	1.7	3.3	832	<5.0 ⁹
	4/27/99	46,000	970	<500	<0.5	1.8	3.7	922	<3.0
	10/28/99	17,000	710	<500	<0.5	2.9	1.7	352	<3.0
	1/18/00	43,000	660	<500 ⁹	<0.5	1.3	1.6	594	<3.0
	4/28/00	39,000	490	<170	<0.5	1.1	1.6	734	<3.0
	7/25/00	34,000	490	<170	<0.5	0.79	1.6	563	<3.0
	10/26/00	33,000	530	170	<0.5	0.85	1.4	530.1	<3.0
	1/29/01	27,000	1,600	1,600	<0.5	0.98	1.7	543	<3.0
	4/25/01	30,000	780	280	<0.5	0.74	1.5	573	<3.0
	7/25/01	35,000	880	550	<0.5	0.63	1.4	562	<3.0
	11/1/01	30,000	1,700	280	<0.5	3.8	1.4	572	<3.0
	1/29/02	26,000	730	<170	<0.5	0.76	0.91	358.2	<3.0
	4/29/02	26,000	410	<170	<0.5	0.98	1.4	470	<3.0
	7/29/02	23,000	650	<170	<0.5	0.73	1.1	408.5	<3.0
	10/31/02	14,000	2,000	630	<0.5	0.63	0.79	285.8	<3.0
	1/30/03	14,000	460	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	265.5	<30 ⁹
	4/29/03	11,000	450	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	200	<30 ⁹
	7/29/03	25,000 ¹⁰	830 ^{12,13}	190 ¹⁴	<0.5	0.87	1.4	500	<3.0
	1/29/04	9,300 ¹⁰	860 ^{12,13}	<170	<0.50	<0.50	<0.50	192.5	<3.0
	6/28/04	23,000 ¹⁰	840 ^{12,13}	<170	<0.50	0.67	1.2	408.6	<3.0
	1/26/05	12,000 ¹¹	420	<170	<0.50	0.64	0.65	234.3	<3.0
	6/6/05	18,000 ¹¹	440 ^{12,13}	<170	<0.50	0.6	0.84	306	<3.0
WP-2	11/14/97	46,000	2,100	980	<0.5	3.4	6.2	994	<5.0 ⁹
	12/22/97	53,000	510	<500	<0.5	2	5	1,440	<5.0 ⁹
	1/26/98	22,000	380	<500	<0.5	1.1	1.4	452	<5.0 ⁹
	4/15/98	20,000	420	<500	<0.5	<0.5	0.59	326	<5.0 ⁹
	7/27/98	55,000	660	<500	<25 ⁹	<25 ⁹	<25 ⁹	1,358	<250 ⁹
	11/24/98	19,000	460	1,000	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	415	<50 ⁹
	1/27/99	39,000	790	<500	<0.5	2.1	4.3	1,129	<5.0 ⁹
	4/27/99	54,000	880	<500	<0.5	2.7	5.9	1,838	<3.0
	10/28/99	53,000	700	<500	<0.5	2.8	4	1,440	<3.0
	1/18/00	35,000	300	<500 ⁹	<0.5	1.4	2	747	<3.0
	4/28/00	44,000	780	220	<0.5	2.7	3.8	1,734	<3.0

Table B-2
Historic Groundwater Analytical Results, Well Point Locations
Arcata Redwood Company, Smith River, California
(in ug/L)¹

Sample Location	Sample Date	TPHG ²	TPHD ³	TPHMO ⁴	B ⁵	T ⁵	E ⁵	X ⁵	MTBE ⁶
WP-2 (Continued)	7/25/00	45,000	510	<170	<0.5	1.7	3.1	1,125	<3.0
	10/26/00	56,000	520	<170	<0.5	2.2	2.9	963	<3.0
	1/29/01	49,000	51,000	93,000	<0.5	3	3.4	2,152	<3.0
	4/25/01	43,000	960	560	<0.5	1.7	3.3	1,330	<3.0
	7/25/01	NQ ¹⁴	700	340	<0.5	1.3	3.1	NQ	<3.0
	11/1/01	47,000	850	<170	<0.5	2.4	3.5	1,532	<3.0
	1/29/02	27,000	620	230	<0.5	1.2	1.6	755	<3.0
	4/29/02	38,000	530	<170	<0.5	1.9	3.1	1,124	<3.0
	7/29/02	47,000	490	<170	<0.5	1.2	2.6	912	<3.0
	10/31/02	64,000	26,000	10,000	<0.5	2.1	2.5	920	<3.0
	1/30/03	6,700	220	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	180	<30 ⁹
	4/29/03	18,000	560	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	541	<30 ⁹
	7/29/03	40,000 ⁹	680 ^{12,13}	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	1,223	<30 ⁹
	1/29/04	25,000 ⁹	420 ^{12,13}	<170	<0.5	0.8	1.7	885	<3.0
	6/28/04	40,000 ⁹	350 ^{12,13}	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	1,020	<30 ⁹
	1/26/05	43,000 ¹¹	660	<170	<0.50	0.92	2.6	889	<3.0
	6/6/05	42,000 ¹¹	630 ^{12,13}	<170	<0.50	0.72	2.3	777	<3.0
WP-3	10/29/99	15,000	360	<500	<0.5	0.67	0.76	225.1	<3.0
	1/18/00	22,000	300	<500 ⁹	<0.5	0.52	0.87	265.5	<3.0
	4/28/00	7,600	180	<170	<0.5	<0.5	<0.5	112	<3.0
	7/25/00	14,000	280	<170	<0.5	0.53	0.74	214.3	<3.0
	10/26/00	16,000	320	<170	<0.5	0.73	0.79	215.1	<3.0
	1/29/01	8,100	160	<170	<0.5	<0.5	0.71	184.9	<3.0
	4/25/01	16,000	550	<170	<0.5	<0.5	0.9	296.2	<3.0
	7/25/01	18,000	790	230	<0.5	<0.5	0.62	285.8	<3.0
	11/1/01	14,000	470	<170	<0.5	0.79	0.83	245.5	<3.0
	1/29/02	13,000	460	<170	<0.5	<0.5	0.54	163.5	<3.0
	4/29/02	10,000	260	<170	<0.5	<0.5	0.66	214	<3.0
	7/29/02	13,000	330 ⁸	<170	<0.5	0.57	0.79	213.9	<3.0
	10/31/02	13,000	580	<170	<0.5	0.59	1.1	224.3	<3.0
	1/30/03	9,900	360	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	<30 ⁹	<30 ⁹
	4/29/03	6,400	270	<170	<5.0 ⁹	<5.0 ⁹	<5.0 ⁹	<30 ⁹	<30 ⁹
	7/29/03	9,300 ⁹	310 ^{12,13}	<170	<0.5	<0.5	0.62	173	<3.0
	1/29/04	6,500 ⁹	260 ^{12,13}	<170	<0.5	<0.5	<0.5	131.8	<3.0
	6/28/04	9,000 ⁹	260 ^{12,13}	<170	<0.50	<0.50	0.57	112.2	<3.0
	1/26/05	7,400 ¹¹	320	<170	<0.50	<0.50	<0.50	132	<3.0
	6/6/05	1,700 ¹¹	130 ^{12,13}	<170	<0.50	<0.50	<0.50	31.55	<3.0
WP-4	10/29/99	<100 ⁹	98	<500	<0.5	10	<0.5	<1.0	<3.0
	1/18/00	<50	<50	<500 ⁹	<0.5	<0.5	<0.5	<0.5	<3.0

Table B-2
Historic Groundwater Analytical Results, Well Point Locations
Arcata Redwood Company, Smith River, California
(in ug/L)¹

Sample Location	Sample Date	TPHG ²	TPHD ³	TPHMO ⁴	B ⁵	T ⁵	E ⁵	X ⁵	MTBE ⁶
WP-4	4/28/00	<50	61	<170	<0.5	1.6	<0.5	<0.5	<3.0
(cont'd)	7/25/00	<50	71	<170	<0.5	<0.5	<0.5	<0.5	<3.0

1. ug/L: micrograms per Liter

2. TPHG: Total Petroleum Hydrocarbons as Gasoline, analyzed in general accordance with EPA Method Nos. 5030/GCFID/8015B

3. TPHD: Total Petroleum Hydrocarbons as Diesel, analyzed in general accordance with EPA Method Nos. 3550 or 3510/GCFID/8015B

4. TPHMO: Total Petroleum Hydrocarbons as Motor Oil, analyzed in general accordance with EPA Method Nos. 3550 or 3510/GCFID/8015B.

5. BTEX: Benzene, Toluene, Ethylbenzene and total Xylenes, analyzed in general accordance with EPA Method Nos. 602 or 5030/8021B

6. MTBE: Methyl Tertiary-Butyl Ether, analyzed in general accordance with EPA Method Nos. 606 or 5030/8021B

7. NA: Not Applicable/Not Analyzed

8. <: Denotes a value that is "less than" the laboratory method detection limit.

9. Reporting limit was raised due to matrix interference.

10. Sample does not present a peak pattern consistent with that of gasoline. The reported results represent the amount of material in the gasoline range.

11. The reported value includes the reported gasoline components in addition to other peaks in the gasoline range.

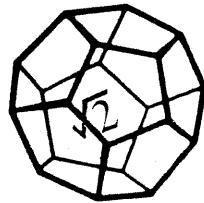
12. Sample contains some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights.

13. Sample contains material similar to degraded or weathered diesel oil.

14. The sample does not have the typical pattern of fresh motor oil. However, the reported result represents the amount of material in the motor oil range.

Appendix C

Laboratory Analytical Report



**NORTH COAST
LABORATORIES LTD.**

REC'D JUN 21 2005

June 17, 2005

Green Diamond Resource Company
P.O. Box 68
Korbel, CA 95550

Order No.: 0506121
Invoice No.: 50830
PO No.: SA# 1508-03-AD-
ELAP No. 1247-Expires July 2006

Attn: Jeff Lane

RE: 093047, Smith River

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	WP-3
01D	WP-3
02A	WP-1
02D	WP-1
03A	WP-2
03D	WP-2
04A	MW-19
04D	MW-19
04F	MW-19
05A	MW-21
05D	MW-21
06A	MW-22
06D	MW-22

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

North Coast Laboratories, Ltd.

Date: 17-Jun-05

CLIENT: Green Diamond Resource Company
Project: 093047, Smith River
Lab Order: 0506121

CASE NARRATIVE

EPA 8021B:

The positive results for sample MW-19 was confirmed by second detector.

The reporting limits were raised for 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene due to matrix interference.

The bromomethane and chloromethane reporting limits were raised due to a loss of instrument response.

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries were above the upper acceptance limit for tetrachloroethane. The LCS recovery was also above the upper acceptance limit for 1,1,2-trichloroethane. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analytes in the sample; therefore, the data were accepted.

TPH as Diesel/Motor Oil:

Samples WP-1, WP-2 and WP-3 contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. These samples also contain material similar to degraded or weathered diesel oil.

TPH as Diesel:

Sample MW-19 contains some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. This sample also contains material similar to degraded or weathered diesel oil.

TPH as Gasoline:

The gasoline values for samples MW-19, WP-1, WP-2 and WP-3 include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:

The surrogate recovery was below the lower acceptance limit for sample MW-21. The response of the reporting limit standard was such that the analytes would have been detected even with the low recovery; therefore, the data were accepted.

Date: 17-Jun-05
WorkOrder: 0506121

ANALYTICAL REPORT

Client Sample ID: WP-3
Lab ID: 0506121-01A

Received: 6/6/05

Collected: 6/6/05 11:20

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	ND	0.50	µg/L	1.0		6/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		6/15/05
m,p-Xylene	0.55	0.50	µg/L	1.0		6/15/05
o-Xylene	31	10	µg/L	20		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	95.8	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,700	50	µg/L	1.0		6/15/05

Client Sample ID: WP-3

Received: 6/6/05

Collected: 6/6/05 11:20

Lab ID: 0506121-01D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	130	50	µg/L	1.0	6/7/05	6/8/05
TPHC Motor Oil	ND	170	µg/L	1.0	6/7/05	6/8/05

Client Sample ID: WP-1

Received: 6/6/05

Collected: 6/6/05 11:50

Lab ID: 0506121-02A

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	0.60	0.50	µg/L	1.0		6/15/05
Ethylbenzene	0.84	0.50	µg/L	1.0		6/15/05
m,p-Xylene	6.0	0.50	µg/L	1.0		6/15/05
o-Xylene	300	25	µg/L	50		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	100	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	18,000	2,500	µg/L	50		6/15/05

Date: 17-Jun-05
WorkOrder: 0506121

ANALYTICAL REPORT

Client Sample ID: WP-1
Lab ID: 0506121-02D

Test Name: TPH as Diesel/Motor Oil Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	440	50	µg/L	1.0	6/7/05	6/8/05
TPHC Motor Oil	ND	170	µg/L	1.0	6/7/05	6/8/05

Client Sample ID: WP-2
Lab ID: 0506121-03A

Test Name: BTEX Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	0.72	0.50	µg/L	1.0		6/15/05
Ethylbenzene	2.3	0.50	µg/L	1.0		6/15/05
m,p-Xylene	17	5.0	µg/L	10		6/15/05
o-Xylene	760	50	µg/L	100		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	104	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	42,000	5,000	µg/L	100		6/15/05

Client Sample ID: WP-2
Lab ID: 0506121-03D

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	630	50	µg/L	1.0	6/7/05	6/8/05
TPHC Motor Oil	ND	170	µg/L	1.0	6/7/05	6/8/05

Date: 17-Jun-05
WorkOrder: 0506121

ANALYTICAL REPORT

Client Sample ID: MW-19
Lab ID: 0506121-04A

Received: 6/6/05

Collected: 6/6/05 13:00

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	ND	0.50	µg/L	1.0		6/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		6/15/05
m,p-Xylene	1.2	0.50	µg/L	1.0		6/15/05
o-Xylene	76	10	µg/L	20		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	100	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	4,100	1,000	µg/L	20		6/15/05

Client Sample ID: MW-19

Received: 6/6/05

Collected: 6/6/05 13:00

Lab ID: 0506121-04D

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	210	50	µg/L	1.0	6/13/05	6/13/05
Surrogate: N-Tricosane	101	70-130	% Rec	1.0	6/13/05	6/13/05

Client Sample ID: MW-19

Received: 6/6/05

Collected: 6/6/05 13:00

Lab ID: 0506121-04F

Test Name: Aromatic Volatiles

Reference: EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	ND	1.0	µg/L	1.0		6/11/05
Toluene	ND	1.0	µg/L	1.0		6/11/05
Chlorobenzene	ND	1.0	µg/L	1.0		6/11/05
Ethylbenzene	ND	1.0	µg/L	1.0		6/11/05
m,p-Xylene	1.5	0.50	µg/L	1.0		6/11/05
o-Xylene	79	10	µg/L	20		6/13/05
1,3-Dichlorobenzene	ND	10	µg/L	1.0		6/11/05
1,4-Dichlorobenzene	ND	10	µg/L	1.0		6/11/05
1,2-Dichlorobenzene	ND	20	µg/L	1.0		6/11/05
Surrogate: Fluorobenzene	99.1	79.1-113	% Rec	1.0		6/11/05

Test Name: Halogenated Volatiles

Reference: EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed

Date: 17-Jun-05
WorkOrder: 0506121

ANALYTICAL REPORT

Dichlorodifluoromethane	ND	1.0	µg/L	1.0	6/11/05
Chloromethane	ND	4.0	µg/L	1.0	6/11/05
Vinyl Chloride	ND	1.0	µg/L	1.0	6/11/05
Bromomethane	ND	2.0	µg/L	1.0	6/11/05
Chloroethane	ND	1.0	µg/L	1.0	6/11/05
Trichlorofluoromethane	ND	1.0	µg/L	1.0	6/11/05
1,1-Dichloroethene	ND	1.0	µg/L	1.0	6/11/05
Methylene Chloride	ND	1.0	µg/L	1.0	6/11/05
trans-1,2-Dichloroethene	ND	1.0	µg/L	1.0	6/11/05
1,1-Dichloroethane	ND	1.0	µg/L	1.0	6/11/05
Chloroform	ND	1.0	µg/L	1.0	6/11/05
1,1,1-Trichloroethane	ND	1.0	µg/L	1.0	6/11/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0	6/11/05
Carbon Tetrachloride	ND	1.0	µg/L	1.0	6/11/05
1,2-Dichloropropane	ND	1.0	µg/L	1.0	6/11/05
Trichloroethene	ND	1.0	µg/L	1.0	6/11/05
Bromodichloromethane	ND	1.0	µg/L	1.0	6/11/05
cis-1,3-Dichloropropene	ND	1.0	µg/L	1.0	6/11/05
trans-1,3-Dichloropropene	ND	1.0	µg/L	1.0	6/11/05
1,1,2-Trichloroethane	ND	1.0	µg/L	1.0	6/11/05
Dibromochloromethane	ND	1.0	µg/L	1.0	6/11/05
Tetrachloroethene	ND	1.0	µg/L	1.0	6/11/05
Chlorobenzene	ND	1.0	µg/L	1.0	6/11/05
Bromoform	ND	1.0	µg/L	1.0	6/11/05
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L	1.0	6/11/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0	6/11/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0	6/11/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0	6/11/05
Surrogate: 2-Bromo-1-chloropropane	79.4	75.2-125	% Rec	1.0	6/11/05

Client Sample ID: MW-21
Lab ID: 0506121-05A

Received: 6/6/05

Collected: 6/6/05 13:40

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	ND	0.50	µg/L	1.0		6/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		6/15/05
m,p-Xylene	ND	0.50	µg/L	1.0		6/15/05
o-Xylene	ND	0.50	µg/L	1.0		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	77.9	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		6/15/05

Date: 17-Jun-05
WorkOrder: 0506121

ANALYTICAL REPORT

Client Sample ID: MW-21
Lab ID: 0506121-05D

Received: 6/6/05

Collected: 6/6/05 13:40

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	6/13/05	6/13/05
Surrogate: N-Tricosane	93.5	70-130	% Rec	1.0	6/13/05	6/13/05

Client Sample ID: MW-22
Lab ID: 0506121-06A

Received: 6/6/05

Collected: 6/6/05 14:20

Test Name: BTEX

Reference: EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		6/15/05
Benzene	ND	0.50	µg/L	1.0		6/15/05
Toluene	ND	0.50	µg/L	1.0		6/15/05
Ethylbenzene	ND	0.50	µg/L	1.0		6/15/05
m,p-Xylene	ND	0.50	µg/L	1.0		6/15/05
o-Xylene	ND	0.50	µg/L	1.0		6/15/05
Surrogate: Cis-1,2-Dichloroethylene	88.0	85-115	% Rec	1.0		6/15/05

Test Name: TPH as Gasoline

Reference: EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		6/15/05

Client Sample ID: MW-22
Lab ID: 0506121-06D

Received: 6/6/05

Collected: 6/6/05 14:20

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	6/13/05	6/13/05
Surrogate: N-Tricosane	97.4	70-130	% Rec	1.0	6/13/05	6/13/05

North Coast Laboratories, Ltd.

Date: 17-Jun-05

CLIENT: Green Diamond Resource Company

Work Order: 0506121

Project: 093047, Smith River

QC SUMMARY REPORT

Method Blank

Sample ID: MB 060905	Batch ID: R35321	Test Code: 8010W	Units: µg/L	Analysis Date: 6/10/05 6:07:07 PM			Prep Date:				
Client ID:		Run ID: ORGC1_050610C		SeqNo: 510318							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	Low limit	High limit	RPD Ref Val	% RPD	RPD limit	Qual
Dichlorodifluoromethane	ND	1.0									
Chloromethane	ND	4.0									
Vinyl Chloride	ND	1.0									
Bromomethane	ND	2.0									
Chloroethane	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
Methylene Chloride	ND	1.0									
trans-1,2-Dichloroethene	ND	1.0									
1,1-Dichloroethane	ND	1.0									
Chloroform	ND	1.0									
1,1,1-Trichloroethane	ND	1.0									
1,2-Dichloroethane	ND	1.0									
Carbon Tetrachloride	ND	1.0									
1,2-Dichloropropane	ND	1.0									
Trichloroethylene	ND	1.0									
Bromodichloromethane	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
trans-1,3-Dichloropropene	ND	1.0									
1,1,2-Trichloroethane	ND	1.0									
Dibromochloromethane	ND	1.0									
Tetrachloroethene	ND	1.0									
Chlorobenzene	ND	1.0									
Bromoform	ND	1.0									
1,1,2,2-Tetrachloroethane	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

QC SUMMARY REPORT
Method Blank

Sample ID:	MB 060905	Batch ID:	R35311	Test Code:	8020W	Units:	µg/L	Analysis Date:	6/10/05 6:07:07 PM	Prep Date:				
Client ID:				Run ID:	ORGC1_050610A			SeqNo:	510208					
Analyte				Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene				ND	1.0									
Toluene				ND	1.0									
Chlorobenzene				ND	1.0									
Ethylbenzene				ND	1.0									
m,p-Xylene				ND	0.50									
o-Xylene				ND	0.50									
1,3-Dichlorobenzene				ND	1.0									
1,4-Dichlorobenzene				ND	1.0									
1,2-Dichlorobenzene				ND	1.0									
Fluorobenzene				0.988	0.10	1.00		0						
Sample ID:	MB-6/14/05	Batch ID:	R35368	Test Code:	BTXEW	Units:	µg/L	Analysis Date:	6/14/05 10:29:36 PM	Prep Date:				
Client ID:				Run ID:	ORGC8_050614B			SeqNo:	511059					
Analyte				Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE				ND	3.0									
Benzene				ND	0.50									
Toluene				ND	0.50									
Ethylbenzene				ND	0.50									
m,p-Xylene				ND	0.50									
o-Xylene				ND	0.50									
Cis-1,2-Dichloroethylene				0.973	0.10	1.00		0						

Sample ID:	MB-6/14/05	Batch ID:	R35366	Test Code:	TPHCGW	Units:	µg/L	Analysis Date:	6/14/05 10:29:36 PM	Prep Date:				
Client ID:				Run ID:	ORGC8_050614A			SeqNo:	511031					
Analyte				Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)				ND	50									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

Sample ID:	MB-13646	Batch ID:	13646	Test Code:	TPHDIW	Units:	µg/L	Analysis Date:	6/13/05 5:18:20 PM	Prep Date:	6/13/05	
Client ID:		Run ID:	ORGCT_050613B	SeqNo:				Ref Val	510361			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		ND	50	0.10	50.0	0	91.6%	70	130	0		
N-Tricosane		45.8										
Sample ID:	MB-13615	Batch ID:	13615	Test Code:	TPHDWW	Units:	µg/L	Analysis Date:	6/8/05 1:40:17 PM	Prep Date:	6/7/05	
Client ID:		Run ID:	ORGCT_050608A	SeqNo:				Ref Val	509330			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		ND	50									
TPHC Motor Oil		ND	ND	170								

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 17-Jun-05

CLIENT: Green Diamond Resource Company

Work Order: 0506121

Project: 093047, Smith River

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID:	LCSD-05378	Batch ID:	R35321	Test Code:	8010W	Units: µg/L		Analysis Date:	6/10/05 2:19:24 PM	Prep Date:		
Client ID:				Run ID:	ORGC1_050610C			SeqNo:	510315			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	Low Limit	High Limit	RPD Ref Val	% RPD	RPD Limit	Qual
Dichlorodifluoromethane		5.729	1.0	5.00	0	115%	50	149	5.32	7.49%	15	
Chloromethane		6.674	4.0	5.00	0	133%	61	155	6.40	4.11%	15	
Vinyl Chloride		5.466	1.0	5.00	0	109%	64	141	4.91	10.8%	15	
Bromomethane		5.714	2.0	5.00	0	114%	80	142	5.38	6.12%	15	
Chloroethane		4.954	1.0	5.00	0	99.1%	81	129	5.61	12.4%	15	
Trichlorofluoromethane		4.846	1.0	5.00	0	96.9%	76	136	4.92	1.46%	15	
1,1-Dichloroethene		5.245	1.0	5.00	0	105%	78	131	4.87	7.34%	15	
Methylene Chloride		5.191	1.0	5.00	0	104%	73	135	5.24	0.915%	15	
trans-1,2-Dichloroethene		5.663	1.0	5.00	0	113%	78	125	5.32	6.17%	15	
1,1-Dichloroethane		5.881	1.0	5.00	0	118%	78	119	5.64	4.14%	15	
Chloroform		5.692	1.0	5.00	0	114%	82	114	5.43	4.71%	15	
1,1,1-Trichloroethane		5.529	1.0	5.00	0	111%	79	119	5.34	3.48%	15	
1,2-Dichloroethane		5.642	1.0	5.00	0	113%	78	117	5.72	1.36%	15	
Carbon Tetrachloride		5.405	1.0	5.00	0	108%	70	129	5.34	1.18%	15	
1,2-Dichloropropane		5.465	1.0	5.00	0	109%	80	119	5.35	2.14%	15	
Trichloroethene		5.201	1.0	5.00	0	104%	80	119	5.20	0.0550%	15	
Bromodichloromethane		5.162	1.0	5.00	0	103%	80	120	5.32	3.04%	15	
cis-1,3-Dichloropropene		5.734	1.0	5.00	0	115%	77	119	5.27	8.46%	15	
trans-1,3-Dichloropropene		6.046	1.0	5.00	0	121%	78	121	5.41	11.1%	15	
1,1,2-Trichloroethane		5.967	1.0	5.00	0	119%	85	116	5.69	4.74%	15	S
Dibromo-chloromethane		6.131	1.0	5.00	0	123%	75	131	5.84	4.87%	15	
Tetrachloroethene		5.896	1.0	5.00	0	118%	79	115	5.85	0.744%	15	
Chlorobenzene		5.523	1.0	5.00	0	110%	79	117	5.33	3.53%	15	
Bromoform		5.945	1.0	5.00	0	119%	72	127	5.25	12.5%	15	
1,1,2,2-Tetrachloroethane		5.397	1.0	5.00	0	108%	78	126	5.06	6.43%	15	
1,3-Dichlorobenzene		6.004	1.0	5.00	0	120%	76	122	5.33	11.9%	15	
1,4-Dichlorobenzene		5.668	1.0	5.00	0	113%	74	125	5.58	1.59%	15	
1,2-Dichlorobenzene		5.365	1.0	5.00	0	107%	79	120	5.31	0.996%	15	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

	2-Bromo-1-chloropropane							
	1.24	0.10	1.00	0	124%	75	125	1.20
								2.66%
								15

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID: LCS-05378	Batch ID: R35321	Test Code: 8010W	Units: µg/L	Analysis Date: 6/10/05 5:10:11 PM			Prep Date:				
Client ID:		Run ID: ORGC1_050610C		SeqNo: 510317							
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	5.316	1.0	5.00	0	106%	50	149	0	0		
Chloromethane	6.405	4.0	5.00	0	128%	61	155	0	0		
Vinyl Chloride	4.906	1.0	5.00	0	98.1%	64	141	0	0		
Bromomethane	5.375	2.0	5.00	0	107%	80	142	0	0		
Chloroethane	5.609	1.0	5.00	0	112%	81	129	0	0		
Trichlorofluoromethane	4.918	1.0	5.00	0	98.4%	76	136	0	0		
1,1-Dichloroethene	4.874	1.0	5.00	0	97.5%	78	131	0	0		
Methylene Chloride	5.239	1.0	5.00	0	105%	73	135	0	0		
trans-1,2-Dichloroethene	5.324	1.0	5.00	0	106%	78	125	0	0		
1,1-Dichloroethane	5.642	1.0	5.00	0	113%	78	119	0	0		
Chloroform	5.430	1.0	5.00	0	109%	82	114	0	0		
1,1,1-Trichloroethane	5.340	1.0	5.00	0	107%	79	119	0	0		
1,2-Dichloroethane	5.719	1.0	5.00	0	114%	78	117	0	0		
Carbon Tetrachloride	5.342	1.0	5.00	0	107%	70	129	0	0		
1,2-Dichloropropane	5.349	1.0	5.00	0	107%	80	119	0	0		
Trichloroethene	5.203	1.0	5.00	0	104%	80	119	0	0		
Bromodichloromethane	5.322	1.0	5.00	0	106%	80	120	0	0		
cis-1,3-Dichloropropene	5.268	1.0	5.00	0	105%	77	119	0	0		
trans-1,3-Dichloropropene	5.408	1.0	5.00	0	108%	78	121	0	0		
1,1,2-Trichloroethane	5.691	1.0	5.00	0	114%	85	116	0	0		
Dibromoethane	5.839	1.0	5.00	0	117%	75	131	0	0		
Tetrachloroethene	5.852	1.0	5.00	0	117%	79	115	0	0		
Chlorobenzene	5.332	1.0	5.00	0	107%	79	117	0	0		
Bromoform	5.246	1.0	5.00	0	105%	72	127	0	0		
1,1,2,2-Tetrachloroethane	5.061	1.0	5.00	0	101%	78	126	0	0		
1,3-Dichlorobenzene	5.332	1.0	5.00	0	107%	76	122	0	0		
1,4-Dichlorobenzene	5.579	1.0	5.00	0	112%	74	125	0	0		
1,2-Dichlorobenzene	5.312	1.0	5.00	0	106%	79	120	0	0		
2-Bromo-1-chloropropane	1.20	0.10	1.00	0	120%	75	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date:	Prep Date:						
Client ID:		Run ID:	µg/L	SeqNo:							
Analyte		Result	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.284	1.0	5.00	0	106%	82	109	0	0		
Toluene	5.283	1.0	5.00	0	106%	79	110	0	0		
Chlorobenzene	5.266	1.0	5.00	0	105%	78	115	0	0		
Ethylbenzene	5.216	1.0	5.00	0	104%	80	110	0	0		
m,p-Xylene	2.522	0.50	2.50	0	101%	80	110	0	0		
o-Xylene	2.502	0.50	2.50	0	100%	80	110	0	0		
1,3-Dichlorobenzene	4.954	1.0	5.00	0	99.1%	80	110	0	0		
1,4-Dichlorobenzene	4.956	1.0	5.00	0	99.1%	82	109	0	0		
1,2-Dichlorobenzene	4.978	1.0	5.00	0	99.6%	81	111	0	0		
Fluorobenzene	1.00	0.10	1.00	0	100%	79	113	0	0		
<hr/>											
Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date:	Prep Date:						
Client ID:		Run ID:	µg/L	SeqNo:							
Analyte		Result	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.298	1.0	5.00	0	106%	82	109	5.28	0.261%	15	
Toluene	5.266	1.0	5.00	0	105%	79	110	5.28	0.322%	15	
Chlorobenzene	5.248	1.0	5.00	0	105%	78	115	5.27	0.341%	15	
Ethylbenzene	5.259	1.0	5.00	0	105%	80	110	5.22	0.828%	15	
m,p-Xylene	2.615	0.50	2.50	0	105%	80	110	2.52	3.59%	15	
o-Xylene	2.613	0.50	2.50	0	105%	80	110	2.50	4.32%	15	
1,3-Dichlorobenzene	5.021	1.0	5.00	0	100%	80	110	4.95	1.34%	15	
1,4-Dichlorobenzene	4.983	1.0	5.00	0	99.7%	82	109	4.96	0.543%	15	
1,2-Dichlorobenzene	4.949	1.0	5.00	0	99.0%	81	111	4.98	0.587%	15	
Fluorobenzene	1.01	0.10	1.00	0	101%	79	113	1.00	0.566%	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID:	LCS-05389	Batch ID:	R35368	Test Code:	BTXEW	Units:	µg/L	Analysis Date: 6/14/05 6:22:44 PM			Prep Date:	
Client ID:				Run ID:	ORGCB_050614B			SeqNo:	511056			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	39.88	3.0	40.0	0	99.7%	85	115	115	0	0		
Benzene	4.842	0.50	5.00	0	96.8%	85	115	115	0	0		
Toluene	4.842	0.50	5.00	0	96.8%	85	115	115	0	0		
Ethylbenzene	4.910	0.50	5.00	0	98.2%	85	115	115	0	0		
m,p-Xylene	9.729	0.50	10.0	0	97.3%	85	115	115	0	0		
o-Xylene	4.915	0.50	5.00	0	98.3%	85	115	115	0	0		
Cis-1,2-Dichloroethylene	1.07	0.10	1.00	0	107%	85	115	115	0	0		
Sample ID:	LCSD-05389	Batch ID:	R35368	Test Code:	BTXEW	Units:	µg/L	Analysis Date: 6/14/05 6:58:30 PM			Prep Date:	
Client ID:				Run ID:	ORGCB_050614B			SeqNo:	511057			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	39.49	3.0	40.0	0	98.7%	85	115	115	39.9	0.994%	15	
Benzene	4.817	0.50	5.00	0	96.3%	85	115	115	4.84	0.498%	15	
Toluene	4.906	0.50	5.00	0	98.1%	85	115	115	4.84	1.32%	15	
Ethylbenzene	4.947	0.50	5.00	0	98.9%	85	115	115	4.91	0.744%	15	
m,p-Xylene	9.792	0.50	10.0	0	97.9%	85	115	115	9.73	0.645%	15	
o-Xylene	4.937	0.50	5.00	0	98.7%	85	115	115	4.92	0.438%	15	
Cis-1,2-Dichloroethylene	1.06	0.10	1.00	0	107%	85	115	115	1.07	0.196%	15	
Sample ID:	LCS-05390	Batch ID:	R35366	Test Code:	TPHCGW	Units:	µg/L	Analysis Date: 6/14/05 8:09:17 PM			Prep Date:	
Client ID:				Run ID:	ORGCB_050614A			SeqNo:	511028			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	550.7	50	500	0	110%	81	126	126	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Green Diamond Resource Company
Work Order: 0506121
Project: 093047, Smith River

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID:	Batch ID:	Test Code:	Units:	Analysis Date:	Prep Date:
Client ID:	Run ID:	ORG C8_050614A	µg/L	SeqNo:	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Gas (C6-C14)	549.1	50	500	0	110%
Sample ID: LCS-13646	Batch ID: 13646	Test Code: TPHCGW	Units: µg/L	Analysis Date: 6/14/05 8:44:29 PM	Prep Date: 6/13/05
Client ID:	Run ID:	ORG C7_050613B	µg/L	SeqNo:	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Diesel (C12-C22)	524.7	50	500	0	105%
N-Tricosane	57.2	0.10	50.0	0	114%
Sample ID: LCSD-13646	Batch ID: 13646	Test Code: TPHDIW	Units: µg/L	Analysis Date: 6/13/05 3:37:28 PM	Prep Date: 6/13/05
Client ID:	Run ID:	ORG C7_050613B	µg/L	SeqNo:	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Diesel (C12-C22)	538.2	50	500	0	108%
N-Tricosane	57.5	0.10	50.0	0	115%
Sample ID: LCS-13615	Batch ID: 13615	Test Code: TPHDMW	Units: µg/L	Analysis Date: 6/8/05 3:57:48 PM	Prep Date: 6/13/05
Client ID:	Run ID:	ORG C7_050608A	µg/L	SeqNo:	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Diesel (C12-C22)	492.0	50	500	0	98.4%
TPHC Motor Oil	1,038	170	1,000	0	104%
Sample ID: LCSD-13615	Batch ID: 13615	Test Code: TPHDMW	Units: µg/L	Analysis Date: 6/8/05 11:39:28 AM	Prep Date: 6/7/05
Client ID:	Run ID:	ORG C7_050608A	µg/L	SeqNo:	
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec
TPHC Diesel (C12-C22)	471.9	50	500	0	94.4%
TPHC Motor Oil	1,070	170	1,000	0	107%
Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	R - RPD outside accepted recovery limits	B - Analyte detected in the associated Method Blank	
J - Analyte detected below quantitation limits					